

**Directory of the Canons.**

Synopsis for all the directories of quadratic, cubic, and biquadratic equations are to be recorded together with the analytic canons for their mode of operation. In which the kind of canon are described in four parts, in order that the operation of the canon responds in a unique manner to the analytic task; the first part of the schematic description for the example is seen to be divided into two parts *A* and *Ab*, with *A* for the first digit of the root to be extracted and *Ab* for the part to be subtracted. The following part is divided into the two parts *B* and *Bc*; *B* for the divisor, and *Bc* for the part to be taken away.

Aequationum Quadraticorum, Cubicorum, & Biquadraticarum, cum canonibus suis operis analytici directoriis cuique adscriptis integra & ordinata synopsis. In qua species canonicae, ut operi analytico distincte respondeant, quadripartito descriptae sunt, antecedentium schematismorum exemplo, videlicet duae primae partes *A* & *Ab* pro primae radices singularis eductione *A* pro divisore *Ab* pro ablatitio; & duae secundae partes *B* & *Bc* pro secundariis reliquis, *B* pro divisore, *Bc* pro ablatitio.

4 different cases of quadratic canons : Prima.	14 different cases of cubic canons : Prima.
2.	2.
3.	3.
4.	3.

<p style="text-align: center;"><b>4.</b></p> <p><math>-aaa + ffa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \underline{ff} \\ -bb \end{array} \right. \\ Ab \left\{ \begin{array}{l} \dots ffb \\ -bbb \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots ff \\ -3.bb \\ -3.b \\ \dots ffc \\ -3.bcc \\ -3.bcc \\ -ccc \end{array} \right. \\ Bc \left\{ \begin{array}{l} -3.bcc \\ -ccc \end{array} \right. \end{array}$	<p style="text-align: center;"><b>8.</b></p> <p><math>aaa + da + ffa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \underline{ff} \\ d \\ \underline{db} \end{array} \right. \\ Ab \left\{ \begin{array}{l} \underline{ffb} \\ dbb \\ .bbb \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots ff \\ \dots d \\ 2.db \\ b.b \\ \underline{3.b} \end{array} \right. \\ Bc \left\{ \begin{array}{l} \dots ffc \\ \dots dcc \\ 2.dcb \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{array} \right. \end{array}$
<p style="text-align: center;"><b>5.</b></p> <p><math>aaa + daa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \dots d \\ \underline{bb} \end{array} \right. \\ Ab \left\{ \begin{array}{l} \dots dbb \\ \underline{bbb} \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots d \\ 2.db \\ 3.bb \\ \underline{3.b} \end{array} \right. \\ Bc \left\{ \begin{array}{l} dcc \\ 2.dbc \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{array} \right. \end{array}$	<p style="text-align: center;"><b>9.</b></p> <p><math>aaa + da - ffa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} -ff \\ d \\ \underline{bb} \end{array} \right. \\ Ab \left\{ \begin{array}{l} \underline{ffb} \\ dbb \\ .bbb \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots -ff \\ \dots d \\ 2.db \\ b.b \\ \underline{3.b} \end{array} \right. \\ Bc \left\{ \begin{array}{l} \dots -ffc \\ \dots dcc \\ 2.dcb \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{array} \right. \end{array}$
<p style="text-align: center;"><b>6.</b></p> <p><math>aaa - daa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \dots d \\ \underline{bb} \end{array} \right. \\ Ab \left\{ \begin{array}{l} -dbb \\ \underline{.bbb} \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots d \\ -2.db \\ 3.bb \\ \underline{3.b} \\ -dcc \\ 2.dbc \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{array} \right. \\ Bc \left\{ \begin{array}{l} -dcc \\ 2.dbc \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{array} \right. \end{array}$	<p style="text-align: center;"><b>10.</b></p> <p><math>-aaa - da + ffa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \underline{ff} \\ -d \\ \underline{-bb} \end{array} \right. \\ Ab \left\{ \begin{array}{l} \underline{ffb} \\ -dbb \\ \underline{-bbb} \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots ff \\ -d \\ -2.db \\ -b.b \\ \underline{-3.b} \end{array} \right. \\ Bc \left\{ \begin{array}{l} \dots ffc \\ \dots -dcc \\ -2.dcb \\ -3.bbc \\ -3.bcc \\ \underline{-ccc} \end{array} \right. \end{array}$
<p style="text-align: center;"><b>7.</b></p> <p><math>-aaa + daa \equiv ggg.</math></p> $\begin{array}{l} A \cdot \left\{ \begin{array}{l} \dots d \\ \underline{-bb} \end{array} \right. \\ Ab \left\{ \begin{array}{l} \underline{dbb} \\ -bbb \end{array} \right. \end{array}$ $\begin{array}{l} B \cdot \left\{ \begin{array}{l} \dots d \\ 2.db \\ -3.bb \\ -3.b \\ \dots dcc \\ 2.dbc \\ -3.bbc \\ -3.bcc \\ \underline{-ccc} \end{array} \right. \\ Bc \left\{ \begin{array}{l} \dots dcc \\ 2.dbc \\ -3.bbc \\ -3.bcc \\ \underline{-ccc} \end{array} \right. \end{array}$	

<b>11.</b>		<b>14.</b>	
$aaa - daa + ffa \quad \underline{\underline{\quad\quad\quad}} \quad ggg.$		$-aaa + daa + ffa \quad \underline{\underline{\quad\quad\quad}} \quad ggg.$	
$A \begin{cases} . ff \\ -d \\ bb \\ \underline{\quad\quad} \\ \dots ffb \\ -dbb \\ \underline{\quad\quad} \\ bbb \end{cases}$	$B \begin{cases} . ff \\ . . -d \\ -2.db \\ 3.bb \\ 3.b \\ \underline{\quad\quad} \\ \dots ffc \\ -dcc \\ 3.bbc \\ 3.bcc \\ -ccc \end{cases}$	$A \begin{cases} . ff \\ d \\ -bb \\ \underline{\quad\quad} \\ fbb \\ dbb \\ \underline{\quad\quad} \\ -bbb \end{cases}$	$B \begin{cases} . ff \\ d \\ 2.db \\ -3.bb \\ -3.b \\ \underline{\quad\quad} \\ ffc \\ dcc \\ 2.dbc \\ -3.bbc \\ -3.bcc \\ -ccc \end{cases}$
<b>12.</b>		<b>46 different cases of quartic canons :</b>	
$-aaa + daa - ffa \quad \underline{\underline{\quad\quad\quad}} \quad ggg.$		<u>Prima.</u>	
		$aaaa$	$hhhh.$
$A \begin{cases} . -ff \\ .d \\ -bb \\ \underline{\quad\quad} \\ -ff \\ \dots d \\ -bb \\ \underline{\quad\quad} \end{cases}$	$B \begin{cases} . -ff \\ . . d \\ 2.db \\ -3.bb \\ -3.b \\ \underline{\quad\quad} \\ \dots ffc \\ dcc \\ 2.dbc \\ -3.bbc \\ -3.bcc \\ -ccc \end{cases}$	$A \begin{cases} . . . . bbb \\ \underline{\quad\quad\quad} \\ Ab \dots bbbb \end{cases}$	$B \begin{cases} 4.bbb \\ 6.bb \\ 4.b \\ \underline{\quad\quad} \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ cccc \end{cases}$
<b>13.</b>		<b>2.</b>	
$aaa - daa - ffa \quad \underline{\underline{\quad\quad\quad}} \quad ggg$		$aaaa + ggga \quad \underline{\underline{\quad\quad\quad}} \quad hhhh.$	
$A \begin{cases} . -ff \\ -d \\ bb \\ \underline{\quad\quad} \\ -fbb \\ -dbb \\ \underline{\quad\quad} \\ bbb \end{cases}$	$B \begin{cases} . -ff \\ -d \\ -2.db \\ 3.bb \\ 3.b \\ \underline{\quad\quad} \\ \dots ffc \\ -dcc \\ -2.dbc \\ 3.bbc \\ 3.bcc \\ \dots ccc \end{cases}$	$A \begin{cases} . ggg \\ . . . bbb \\ \underline{\quad\quad} \\ Ab \begin{cases} . ggb \\ bbbb \end{cases} \end{cases}$	$B \begin{cases} . . ggg \\ . . . 4.bbb \\ 6.bb \\ 4.b \\ \underline{\quad\quad} \\ . . gggc \\ 4.bbbc \\ 6.bbcc \\ 4.bcc \\ \dots cccc \end{cases}$

<p style="text-align: center;"><b>3.</b></p> <p><math>aaaa - ggga \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} - ggg \\ \underline{.bbb} \end{array} \right.</math></p> <p>Ab <math>\left\{ \begin{array}{l} -gggb \\ \underline{bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} - ggg \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right.</math></p> <p>Bc <math>\left\{ \begin{array}{l} - gggc \\ \underline{4..bbbc} \\ 6.bbcb \\ 4.bccc \\ \underline{..cccc} \end{array} \right.</math></p> </div> </div>	<p style="text-align: center;"><b>7.</b></p> <p><math>-aaaa + ffaa \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} ff \\ \underline{- bbb} \end{array} \right.</math></p> <p>Ab <math>\left\{ \begin{array}{l} ff \\ \underline{-bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} ..ff \\ \underline{.2.ffb} \\ -4.bbb \\ -6.bb \\ -4.b \end{array} \right.</math></p> <p>Bc <math>\left\{ \begin{array}{l} ffcc \\ \underline{2.ffbc} \\ -4.bbcb \\ -6.bbcb \\ -4.bcc \\ -cccc \end{array} \right.</math></p> </div> </div>
<p style="text-align: center;"><b>4.</b></p> <p><math>-aaaa + ggga \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} . ggg \\ \underline{-bbb} \end{array} \right.</math></p> <p>Ab <math>\left\{ \begin{array}{l} -gggb \\ \underline{bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} . ggg \\ \underline{-4.bbb} \\ -6.bb \\ -4.b \end{array} \right.</math></p> <p>Bc <math>\left\{ \begin{array}{l} .. gggc \\ \underline{-4..bbbc} \\ -6.bbcb \\ -4.bccc \\ -c ccc \end{array} \right.</math></p> </div> </div>	<p style="text-align: center;"><b>8.</b></p> <p><math>aaaa + daaa \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} d \\ \underline{bbb} \end{array} \right.</math></p> <p>Ab <math>\left\{ \begin{array}{l} dbbb \\ \underline{bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} ..d \\ \underline{.3.db} \\ 3.dbb \\ 4.bbb \\ 6bb \\ \underline{4b} \end{array} \right.</math></p> <p>Bc <math>\left\{ \begin{array}{l} .dccc \\ \underline{3.dbcc} \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ -cccc \end{array} \right.</math></p> </div> </div>
<p style="text-align: center;"><b>5.</b></p> <p><math>aaaa + ffaa \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} ff \\ \underline{bbb} \end{array} \right.</math></p> <p>Ab <math>\left\{ \begin{array}{l} gbbb \\ \underline{.bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} ..ff \\ \underline{.2.ffb} \\ 4.bbb \\ 6.bb \\ \underline{4.b} \end{array} \right.</math></p> <p>Bc <math>\left\{ \begin{array}{l} .. ffcc \\ \underline{2.ffbc} \\ 4.bbcb \\ 6.bbcb \\ 4.bcc \\ \underline{cccc} \end{array} \right.</math></p> </div> </div>	<p style="text-align: center;"><b>9.</b></p> <p><math>aaaa - daaa \quad \underline{\underline{\hspace{2cm}}}</math> <math>hhhh.</math></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>A. <math>\left\{ \begin{array}{l} -d \\ \underline{bbb} \\ -dbbb \\ \underline{bbbb} \end{array} \right.</math></p> </div> <div style="width: 45%;"> <p>B. <math>\left\{ \begin{array}{l} -d \\ -3.db \\ -3.dbb \\ 4.bbb \\ 6bb \\ \underline{4.b} \\ -dccc \\ -3.dbcc \\ -4.bbcb \\ 6.bbcb \\ 4.bccc \\ \underline{cccc} \end{array} \right.</math></p> </div> </div>
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<p style="text-align: center;"><b>11</b></p> <p><math>aaaa + ffaa + ggga \xrightarrow{\quad\quad\quad} hhhh.</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} ggg \\ ff \\ \underline{.bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ ffbb \\ \underline{bhhh} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ ff \\ 2.ffb \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ ffcc \\ 2.ffb \\ 4..bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} ggg \\ ff \\ \underline{.bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ ffbb \\ \underline{bhhh} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ ff \\ 2.ffb \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ ffcc \\ 2.ffb \\ 4..bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  $		<p style="text-align: center;"><b>14</b></p> <p><math>aaaa - ffaa + ggga \xrightarrow{\quad\quad\quad} hhhh.</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} ggg \\ -ff \\ \underline{bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ -ffbb \\ \underline{bbbb} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ -ff \\ -2.ffb \\ \underline{4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ -ffcc \\ -2.ffb \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} ggg \\ -ff \\ \underline{bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ -ffbb \\ \underline{bbbb} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ -ff \\ -2.ffb \\ \underline{4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ -ffcc \\ -2.ffb \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{cccc} \end{array} \right.  \end{array}  $	
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<p style="text-align: center;"><b>12</b></p> <p><math>aaaa + ffaa - ggga \xrightarrow{\quad\quad\quad} hhhh..</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ ff \\ \underline{.bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ ffbb \\ \underline{bhhh} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ ff \\ 2.ffb \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..-gggc \\ ffcc \\ 2.ffb \\ 4..bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ ff \\ \underline{.bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ ffbb \\ \underline{bhhh} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ ff \\ 2.ffb \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..-gggc \\ ffcc \\ 2.ffb \\ 4..bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  $		<p style="text-align: center;"><b>15</b></p> <p><math>-aaaa + ffaa - ggga \xrightarrow{\quad\quad\quad} hhhh.</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} .-ggg \\ ff \\ \underline{-bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ ffbb \\ \underline{-bbbb} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ ff \\ 2.ffb \\ -4.bbb \\ -6.bb \\ \underline{-4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} .-gggc \\ ffcc \\ 2.ffb \\ -4.bbbc \\ -6.bbcc \\ -4.bccc \\ \underline{-cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} .-ggg \\ ff \\ \underline{-bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ ffbb \\ \underline{-bbbb} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ ff \\ 2.ffb \\ -4.bbb \\ -6.bb \\ \underline{-4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} .-gggc \\ ffcc \\ 2.ffb \\ -4.bbbc \\ -6.bbcc \\ -4.bccc \\ \underline{-cccc} \end{array} \right.  \end{array}  $	
$  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ ff \\ \underline{.bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ ffbb \\ \underline{bhhh} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ ff \\ 2.ffb \\ \underline{.4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..-gggc \\ ffcc \\ 2.ffb \\ 4..bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  $						
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<p style="text-align: center;"><b>13</b></p> <p><math>-aaaa - ffaa + ggga \xrightarrow{\quad\quad\quad} hhhh.</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ -ff \\ \underline{-bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ -ffbb \\ \underline{-bbbb} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ -ff \\ -2.ffb \\ \underline{.4.bbb} \\ -6.bb \\ \underline{-4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ -ffcc \\ -2.ffb \\ -4..bbbc \\ -6.bbcc \\ -4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ -ff \\ \underline{-bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} gggb \\ -ffbb \\ \underline{-bbbb} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} .ggg \\ -ff \\ -2.ffb \\ \underline{.4.bbb} \\ -6.bb \\ \underline{-4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} ..gggc \\ -ffcc \\ -2.ffb \\ -4..bbbc \\ -6.bbcc \\ -4.bccc \\ \underline{..cccc} \end{array} \right.  \end{array}  $		<p style="text-align: center;"><b>16</b></p> <p><math>aaaa - ffaa - ggga \xrightarrow{\quad\quad\quad} hhhh.</math></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ -ff \\ \underline{bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ -ffbb \\ \underline{bbbb} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> <math display="block">  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ -ff \\ -2.ffb \\ \underline{4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} -gggc \\ -ffcc \\ -2.ffb \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{cccc} \end{array} \right.  \end{array}  </math> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>	$  \begin{array}{l}  A. \left\{ \begin{array}{l} -ggg \\ -ff \\ \underline{bbb} \end{array} \right. \\  Ab \left\{ \begin{array}{l} -gggb \\ -ffbb \\ \underline{bbbb} \end{array} \right.  \end{array}  $	$  \begin{array}{l}  B. \left\{ \begin{array}{l} -.ggg \\ -ff \\ -2.ffb \\ \underline{4.bbb} \\ 6.bb \\ \underline{4.b} \end{array} \right. \\  Bc \left\{ \begin{array}{l} -gggc \\ -ffcc \\ -2.ffb \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{cccc} \end{array} \right.  \end{array}  $	
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<p style="text-align: center;"><b>17</b></p> <p style="text-align: center;"><u>—aaaa + ffaa + ggga</u>      <u>hhhh.</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%; vertical-align: middle;"> <math>A. \left\{ \begin{array}{l} \underline{ggg} \\ ff \\ \underline{..-bbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>B \left\{ \begin{array}{l} .ggg \\ ff \\ 2.ffb. \\ \underline{..-4.bbb} \\ -6.bb \\ -4.b \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Bc \left\{ \begin{array}{l} .. gggc \\ ffcc \\ 2.ffb \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ \underline{..- cccc} \end{array} \right.</math> </td> </tr> </table>	$A. \left\{ \begin{array}{l} \underline{ggg} \\ ff \\ \underline{..-bbb} \end{array} \right.$		$B \left\{ \begin{array}{l} .ggg \\ ff \\ 2.ffb. \\ \underline{..-4.bbb} \\ -6.bb \\ -4.b \end{array} \right.$		$Bc \left\{ \begin{array}{l} .. gggc \\ ffcc \\ 2.ffb \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ \underline{..- cccc} \end{array} \right.$	<p style="text-align: center;"><b>20</b></p> <p style="text-align: center;"><u>—aaaa — daaa + ggga</u>      <u>hhhh.</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%; vertical-align: middle;"> <math>A. \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-bbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Ab \left\{ \begin{array}{l} \underline{gggb} \\ -dbbb \\ \underline{-bbbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>B. \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-3.db} \\ ..-3.dbb \\ -4.bbb \\ -6.bb \\ \underline{4.b} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Bc \left\{ \begin{array}{l} .. -gggc \\ -dccc \\ -3.dbcc \\ -4..bbcb \\ -6.bbcb \\ -4.bccc \\ \underline{..- cccc} \end{array} \right.</math> </td> </tr> </table>	$A. \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-bbb} \end{array} \right.$		$Ab \left\{ \begin{array}{l} \underline{gggb} \\ -dbbb \\ \underline{-bbbb} \end{array} \right.$		$B. \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-3.db} \\ ..-3.dbb \\ -4.bbb \\ -6.bb \\ \underline{4.b} \end{array} \right.$		$Bc \left\{ \begin{array}{l} .. -gggc \\ -dccc \\ -3.dbcc \\ -4..bbcb \\ -6.bbcb \\ -4.bccc \\ \underline{..- cccc} \end{array} \right.$		
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<p style="text-align: center;"><b>18</b></p> <p style="text-align: center;"><u>aaaa + daaa + ggga</u>      <u>hhhh.</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%; vertical-align: middle;"> <math>A. \left\{ \begin{array}{l} .ggg \\ d \\ \underline{bbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Ab \left\{ \begin{array}{l} \underline{gggb} \\ dbbb \\ \underline{bbbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>B. \left\{ \begin{array}{l} .ggg \\ d \\ 3.db. \\ \underline{..3.dbb} \\ 4.bbb \\ 6.bb \\ \underline{4.b} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Bc \left\{ \begin{array}{l} .. gggc \\ dccc \\ 3.dbcb \\ 4..bbcb \\ 6.bbcb \\ 4.bccc \\ \underline{.. cccc} \end{array} \right.</math> </td> </tr> </table>	$A. \left\{ \begin{array}{l} .ggg \\ d \\ \underline{bbb} \end{array} \right.$		$Ab \left\{ \begin{array}{l} \underline{gggb} \\ dbbb \\ \underline{bbbb} \end{array} \right.$		$B. \left\{ \begin{array}{l} .ggg \\ d \\ 3.db. \\ \underline{..3.dbb} \\ 4.bbb \\ 6.bb \\ \underline{4.b} \end{array} \right.$		$Bc \left\{ \begin{array}{l} .. gggc \\ dccc \\ 3.dbcb \\ 4..bbcb \\ 6.bbcb \\ 4.bccc \\ \underline{.. cccc} \end{array} \right.$	<p style="text-align: center;"><b>21</b></p> <p style="text-align: center;"><u>aaaa — daaa + ggga</u>      <u>hhhh.</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%; vertical-align: middle;"> <math>A \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{bbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Ab \left\{ \begin{array}{l} \underline{gggb} \\ -dbbb \\ \underline{bbbb} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>B \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-3.db} \\ ..-3.dbb \\ 4.bbb \\ 6.bb \\ \underline{4.b} \end{array} \right.</math> </td> <td style="width: 15%;"></td> <td style="width: 15%; vertical-align: middle;"> <math>Bc \left\{ \begin{array}{l} .. gggc \\ -dccc \\ -3.dbcb \\ -3.dbcb \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ \underline{.. cccc} \end{array} \right.</math> </td> </tr> </table>	$A \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{bbb} \end{array} \right.$		$Ab \left\{ \begin{array}{l} \underline{gggb} \\ -dbbb \\ \underline{bbbb} \end{array} \right.$		$B \left\{ \begin{array}{l} .ggg \\ -d \\ \underline{-3.db} \\ ..-3.dbb \\ 4.bbb \\ 6.bb \\ \underline{4.b} \end{array} \right.$		$Bc \left\{ \begin{array}{l} .. gggc \\ -dccc \\ -3.dbcb \\ -3.dbcb \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ \underline{.. cccc} \end{array} \right.$
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<p style="text-align: center;"><b>23</b></p> <p><i>aaaa</i> — <i>daaa</i> — <u><i>ggga</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} -ggg \\ -d \\ -bbb \\ \hline gggb \\ -dbbb \\ \hline bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} -ggg \\ -d \\ -3.db \\ -3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">Bc \left\{ \begin{array}{l} -gggc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} -ggg \\ -d \\ -bbb \\ \hline gggb \\ -dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} -ggg \\ -d \\ -3.db \\ -3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \end{array} \right.$	$Bc \left\{ \begin{array}{l} -gggc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$	<p style="text-align: center;"><b>26</b></p> <p><i>aaaa</i> + <i>daaa</i> — <u><i>ffaa</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} -ff \\ d \\ \hline bbb \\ -ffbb \\ \hline dbbb \\ \hline bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} -ff \\ -2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ -2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} -ff \\ d \\ \hline bbb \\ -ffbb \\ \hline dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} -ff \\ -2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ -2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$
$A. . \left\{ \begin{array}{l} -ggg \\ -d \\ -bbb \\ \hline gggb \\ -dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} -ggg \\ -d \\ -3.db \\ -3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \end{array} \right.$	$Bc \left\{ \begin{array}{l} -gggc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$				
$A. . \left\{ \begin{array}{l} -ff \\ d \\ \hline bbb \\ -ffbb \\ \hline dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} -ff \\ -2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ -2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$					
<p style="text-align: center;"><b>24</b></p> <p>—<i>aaaa</i> + <i>daaa</i> + <u><i>ggga</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} ggg \\ d \\ -bbb \\ \hline gggb \\ dbbb \\ \hline -bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} ggg \\ d \\ 3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline -4.b \\ ..gggc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} ggg \\ d \\ -bbb \\ \hline gggb \\ dbbb \\ \hline -bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ggg \\ d \\ 3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline -4.b \\ ..gggc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.$	<p style="text-align: center;"><b>27</b></p> <p>—<i>aaaa</i> — <i>daaa</i> + <u><i>ffaa</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} ff \\ -d \\ -bbb \\ \hline ffbb \\ -dbbb \\ \hline -bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} ff \\ -d \\ -bbb \\ \hline ffbb \\ -dbbb \\ \hline -bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.$	
$A. . \left\{ \begin{array}{l} ggg \\ d \\ -bbb \\ \hline gggb \\ dbbb \\ \hline -bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ggg \\ d \\ 3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline -4.b \\ ..gggc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.$					
$A. . \left\{ \begin{array}{l} ff \\ -d \\ -bbb \\ \hline ffbb \\ -dbbb \\ \hline -bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ -4.bbb \\ -6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ -4.bbcb \\ -6.bbcb \\ -4.bccc \\ ..cccc \end{array} \right.$					
<p style="text-align: center;"><b>25</b></p> <p><i>aaaa</i> + <i>daaa</i> + <u><i>ffaa</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} ff \\ d \\ \hline bbb \\ ffbb \\ dbbb \\ \hline bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} ff \\ d \\ \hline bbb \\ ffbb \\ dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$	<p style="text-align: center;"><b>28</b></p> <p><i>aaaa</i> — <i>daaa</i> + <u><i>ffaa</i></u>      <i>hhhh.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; vertical-align: middle;"> <math display="block">A. . \left\{ \begin{array}{l} ff \\ -d \\ \hline bbb \\ ffbb \\ -dbbb \\ \hline bbbb \end{array} \right.</math> </td> <td style="width: 30%; vertical-align: middle;"> <math display="block">B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.</math> </td> </tr> </table>	$A. . \left\{ \begin{array}{l} ff \\ -d \\ \hline bbb \\ ffbb \\ -dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$	
$A. . \left\{ \begin{array}{l} ff \\ d \\ \hline bbb \\ ffbb \\ dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ d \\ 3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$					
$A. . \left\{ \begin{array}{l} ff \\ -d \\ \hline bbb \\ ffbb \\ -dbbb \\ \hline bbbb \end{array} \right.$	$B. . \left\{ \begin{array}{l} ff \\ 2.ffb \\ -d \\ -3.db \\ 3.dbb \\ 4.bbb \\ 6.bb \\ \hline 4.b \\ ..ffcc \\ 2.ffbc \\ -dccc \\ -3.dbcc \\ -3.dbbc \\ 4.bbcb \\ 6.bbcb \\ 4.bccc \\ ..cccc \end{array} \right.$					

<u>29</u>		<u>31</u>	
—aaaa + daaa — ffaa		aaaa — daaa — ffaa	
hhhh.		hhhh.	
<p>A . . { — ff   d —bbb —ffbb Ab { dbbb       —bbbb</p>	<p>B . . { —ff —2.ffb   . . d   . . . 3.db   . . . 3.dbb —4.bbb —6.bb   4.b Bc { ffcc       2.ffbc       dccc       3.dbcc       3.dbbc —4.bbcb —6.bbcb —4.bccc   .cccc</p>	<p>A . . { — ff — d   bbb —ffbb Ab { —dbbb       —bbbb</p>	<p>B { — ff —2.ffb —d —3.db.   . — 3.dbb   4.bbb   6.bb   4.b   . — . ffcc   —2.ffbc   — dccc   —3.dbcc Bc { —3.dbbc       4.bbcb       6.bbcb       4.bccc       . cccc</p>
<u>30</u>		<u>32</u>	
—aaaa + daaa + ffaa		aaaa + daaa + ffaa + ggga	
hhhh.		hhhh.	
<p>A . . {   ff   d —bbb —ffbb Ab { dbbb       —bbbb</p>	<p>B . . {   ff   2.ffb   d   3.db.   . 3.dbb —4.bbb —6.bb —4.b   . . ffcc   2.ffbc   dccc   3.dbcc —3.dbbc   4.bbcb —6.bbcb —4.bccc   .cccc</p>	<p>A . {   ggg   ff   d   bbb Ab { gggb       ffbb       dbbb       —bbbb</p>	<p>B {   . . . ggg   . . ff   2.ffb   . . d   3.db.   . 3.dbb   4.bbb   6.bb   4.b   . . . gggc   . . ffcc   2.ffbc   dccc Bc { 3.dbcc       3.dbbc       4.bbcb       6.bbcb       4.bccc       . cccc</p>



<u>29</u>		<u>31</u>	
—aaaa + daaa — ffaa		aaaa — daaa — ffaa	
hhhh.		hhhh.	
<p>A . . { — ff   d —bbb —ffbb Ab { dbbb —bbbb</p>	<p>B . . { —ff —2.ffb   d   . . d   . . 3.db   . . 3.dbb —4.bbb —6.bb   4.b   ffcc   2.ffbc   dccc   3.dbcc   3.dbbc —4.bbcb —6.bbcb —4.bccc   cccc</p>	<p>A . . { — ff — d   bbb —ffbb Ab { dbbb —bbbb</p>	<p>B . . { — ff —2.ffb   d   . . 3.db   . . 3.dbb   . . 4.bbb   6.bb   4.b   . . ffcc   . . 2.ffbc   . . dccc   . . 3.dbcc   . . 3.dbbc   . . 4.bbcb   . . 6.bbcb   . . 4.bccc   . . cccc</p>
<u>30</u>		<u>32</u>	
—aaaa + daaa + ffaa		aaaa + daaa + ffaa + ggga	
hhhh.		hhhh.	
<p>A . . {   ff   d —bbb —ffbb Ab { dbbb —bbbb</p>	<p>B . . {   ff   2.ffb   d   3.db   . . 3.dbb —4.bbb —6.bb —4.b   . . ffcc   2.ffbc   dccc   3.dbcc —3.dbbc   4.bbcb —6.bbcb —4.bccc   cccc</p>	<p>A . . {   ggg   ff   d   bbb —gggb —ffbb Ab { dbbb —bbbb</p>	<p>B . . {   . . .ggg   . . .ff   2.ffb   . . .d   3.db   . . 3.dbb   4.bbb   6.bb   4.b   . . .gggc   . . .ffcc   2.ffbc   dccc   3.dbcc   3.dbbc   4.bbcb   6.bbcb   4.bccc   . . cccc</p>

<b>33</b>		<b>35</b>	
$aaaa + daaa + ffaa - ggga \equiv hhhh.$		$aaaa + daaa - ffaa + ggga \equiv hhhh.$	
$A.$ { $- ggg$ $ff$ $d$ $bbb$ $gggb$ $ffbb$ $Ab$ { $dbbb$ $bbbb$	$B.$ { $. . . ggg$ $. . . ff$ $2.ffb$ $. . . d$ $3.db$ $3.dbb$ $4.bbb$ $6.bb$ $4b$ $Bc$ { $. . . gggc$ $. . . ffcc$ $2.ffbc$ $dccc$ $3.dbcc$ $3.dbbc$ $4.bbcb$ $6.bbcb$ $4.bccc$ $. cccc$	$A.$ { $ggg$ $- ff$ $d$ $bbb$ $gggb$ $- ffbb$ $Ab$ { $dbbb$ $bbbb$	$B.$ { $. . . ggg$ $. . . ff$ $-2.ffb$ $. . . d$ $3.db$ $3.dbb$ $4.bbb$ $6.bb$ $4b$ $Bc$ { $. . . gggc$ $. . . ffcc$ $-2.ffbc$ $dccc$ $3.dbcc$ $3.dbbc$ $4.bbcb$ $6.bbcb$ $4.bccc$ $. cccc$
<b>34</b>		<b>36</b>	
$-aaaa - daaa - ffaa + ggga \equiv hhhh.$		$-aaaa - daaa + ffaa - ggga \equiv hhhh.$	
$A.$ { $ggg$ $- ff$ $- d$ $-bbb$ $gggb$ $- ffbb$ $Ab$ { $-dbbb$ $-bbbb$	$B.$ { $. . . ggg$ $. . . ff$ $-2.ffb$ $. . . d$ $-3.db$ $-3.dbb$ $-4.bbb$ $-6.bb$ $-4b$ $Bc$ { $. . . gggc$ $. . . ffcc$ $-2.ffbc$ $-dccc$ $-3.dbcc$ $-3.dbbc$ $-4.bbcb$ $-6.bbcb$ $-4.bccc$ $- . cccc$	$A.$ { $-ggg$ $ff$ $- d$ $-bbb$ $-gggb$ $ffbb$ $Ab$ { $-dbbb$ $-bbbb$	$B.$ { $. . . ggg$ $. . . ff$ $2.ffb$ $. . . d$ $-3.db$ $-3.dbb$ $-4.bbb$ $-6.bb$ $-4b$ $Bc$ { $. . . gggc$ $. . . ffcc$ $-2.ffbc$ $-dccc$ $-3.dbcc$ $-3.dbbc$ $-4.bbcb$ $-6.bbcb$ $-4.bccc$ $. - cccc$

37		39	
—aaaa— daaa + ffaa — ggga		aaaa + daaa — ffaa — ggga	
=====		=====	
hhhh.		hhh.	
<p>A . {              <u>ggg</u>              ff              — d              <u>bbb</u>            {            <u>gggb</u>            ffbb            — dbbb            <u>bbbb</u></p>	<p>B . {              . . . ggg              . . . ff              2.ffb              . . . d              — 3.db.              — 3.dbb              4.bbb              6.bb              — 4.b            {            . . . gggc            . . . ffcc            2.ffbc            — dccc            — 3.dbcc            — 3.dbbc            4.bbcb            6.bbcb            4.bccc            . cccc</p>	<p>A . {              — ggg              — ff              d              <u>bbb</u>            {            — gggb            ffbb            <u>dbbb</u>            <u>bbbb</u></p>	<p>B . {              . . . ggg              . . . ff              — 2.ffb              . . . d              3.db.              — 3.dbb              4.bbb              6.bb              — 4.b            {            . . . gggc            . . . ffcc            — 2.ffbc            dccc            — 3.dbcc            — 3.dbbc            — 4.bbcb            — 4.bbcb            — 4.bccc            . cccc</p>
38		40	
aaaa + daaa — ffaa + ggga		—aaaa— daaa + ffaa — ggga	
=====		=====	
hhhh.		hhhh.	
<p>A . {              — ggg              — ff              d              — <u>bbb</u>            {            — <u>gggb</u>            — <u>ffbb</u>            <u>dbbb</u>            — <u>bbbb</u></p>	<p>B . {              . . . ggg              . . . ff              — 2.ffb              . . . d              3.db.              — 3.dbb              — 4.bbb              — 6.bb              — 4.b            {            . . . gggc            . . . ffcc            — 2.ffbc            dccc            3.dbcc            3.dbbc            — 4.bbcb            — 6.bbcb            — 4.bccc            — . cccc</p>	<p>A . {              ggg              ff              — d              — <u>bbb</u>            {            <u>gggb</u>            ffbb            — <u>dbbb</u>            — <u>bbbb</u></p>	<p>B . {              . . . ggg              . . . ff              2.ffb              . . . d              — 3.db.              — 3.dbb              — 4.bbb              — 6.bb              — 4.b            {            . . . gggc            . . . ffcc            — 2.ffbc            — dccc            — 3.dbcc            — 3.dbbc            — 4.bbcb            — 4.bbcb            — 4.bccc            . cccc</p>

<b>41</b>		<b>43</b>	
$aaaa - daaa + ffaa - ggga \equiv hhhh.$		$aaaa - daaa - ffaa + ggga \equiv hhh.$	
$A.$ { $-ggg$ $ff$ $-d$ $bbb$ $-gggb$ $ffbb$ $-dbbb$ $bbbb$	$B.$ { $-.ggg$ $..ff$ $2.ffb$ $..d$ $-3.db.$ $-3.dbb$ $4.bbb$ $6.bb$ $-4b$	$A.$ { $ggg$ $-ff$ $-d$ $bbb$ $-gggb$ $-ffbb$ $-dbbb$ $bbbb$	$B.$ { $..ggg$ $..-ff$ $-2.ffb$ $..d$ $-3.db.$ $-3.dbb$ $4.bbb$ $6.bb$ $-4b$
	$Bc$ { $..gggc$ $..ffcc$ $2.ffbc$ $-dccc$ $-3.dbcc$ $-3.dbbc$ $4.bbcb$ $6.bbcb$ $4.bccc$ $.cccc$		$Bc$ { $..gggc$ $..-ffcc$ $-2.ffbc$ $-dccc$ $-3.dbcc$ $-3.dbbc$ $4.bbcb$ $6.bbcb$ $4.bccc$ $.cccc$
<b>42</b>		<b>44</b>	
$-aaaa + daaa - ffaa + ggga \equiv hhhh.$		$-aaaa + daaa + ffaa - ggga \equiv hhhh.$	
$A.$ { $ggg$ $-ff$ $d$ $-bbb$ $gggb$ $-ffbb$ $dbbb$ $-bbbb$	$B.$ { $..ggg$ $..-ff$ $-2.ffb$ $..d$ $3.db.$ $3.dbb$ $-4.bbb$ $-6.bb$ $-4b$	$A.$ { $-ggg$ $ff$ $d$ $-bbb$ $-gggb$ $ffbb$ $dbbb$ $-bbbb$	$B.$ { $-ggg$ $..ff$ $2.ffb$ $..d$ $3.db.$ $3.dbb$ $-4.bbb$ $-6.bb$ $-4b$
	$Bc$ { $..gggc$ $..-ffcc$ $-2.ffbc$ $dccc$ $3.dbcc$ $3.dbbc$ $-4.bbcb$ $-6.bbcb$ $-4.bccc$ $-.cccc$		$Bc$ { $..-gggc$ $..ffcc$ $2.ffbc$ $dccc$ $3.dbcc$ $3.dbbc$ $-4.bbcb$ $-6.bbcb$ $-4.bccc$ $-.cccc$

45		46	
$aaaa - daaa - ffaa - ggga \quad \underline{\underline{\hspace{2cm}}}$		$\underline{\underline{\hspace{2cm}}} - aaaa + daaa + ffaa + ggga$	
$A . \left\{ \begin{array}{l} - ggg \\ - ff \\ - d \\ \underline{bbb} \\ - gggb \\ - ffbb \\ - dbbb \\ \underline{bbbb} \end{array} \right.$	$hhhh. \left\{ \begin{array}{l} . - ggg \\ . . - ff \\ - 2.ffb \\ . . - d \\ - 3.db. \\ - 3.dbb \\ 4.bbb \\ 6.bb \\ \underline{4b} \\ . . - gggc \\ . - . ffcc \\ - 2.ffbc \\ - dccc \\ - 3.dbcc \\ - 3.dbbc \\ 4.bbbc \\ 6.bbcc \\ 4.bccc \\ \underline{cccc} \end{array} \right.$	$A . \left\{ \begin{array}{l} ggg \\ ff \\ d \\ - bbb \\ gggb \\ ffbb \\ dbbb \\ \underline{bbbb} \end{array} \right.$	$hhhh. \left\{ \begin{array}{l} . . ggg \\ . . ff \\ 2.ffb \\ . . d \\ 3.db. \\ . 3.dbb \\ - 4.bbb \\ - 6.bb \\ - 4.b \\ . . gggc \\ . . ffcc \\ 2.ffbc \\ dccc \\ 3.dbcc \\ 3.dbbc \\ - 4.bbbc \\ - 6.bbcc \\ - 4.bccc \\ . - cccc \end{array} \right.$

Sic igitur exacta est aequationum de triplici genere proposito cum canonibus suis directoriis universa descriptio : Quae ut Problematum superiorum Corollarium generale, & ad Exegeticen numerosam maxime conveniens Appendix, secundae & exegeticae tractatus huius parti finem imponat.

*To Students of Mathematics.*

Since this is the first work on Analysis to be published from all of the Mathematical writings of *Thomas Harriot*, it has not been achieved without consultation. For, like the rest of his works, with a multitude of novel inventions, for this tract is composed entirely in the Logistic style (the *Logistics speciosae* is composed wholly from all kinds of examples), which up to this time is unusual ; surely for this reason, this tract shall be the forerunner for the remainder of Harriot's writings, beyond the special use of this priceless tract, which are now being seriously considered for publication, which the present work may serve as a necessary preparation or as an opportune introduction. Concerning which indeed from the accessibility of this work for its usefulness in Mathematics, the serious student is to be forewarned from these few things of the priceless works to be introduced.

*Ad Mathematices studiosos.*

Ex omnibus *Thomas Harriot* scriptis Mathematiciis, quod opus hoc Analyticum primum in publicum emissum sit, haud inconsulto factum est. Nam, quum reliqua eius opera, multiplici inventurum novitate eccellente, eodem omnino quo tractatus iste (*Logistics speciosae* examplis omnimodis totus compositus) stilo Logistico, hactenus inusitato, conscripta sint, ea certe ratione sit, ut prodromus hic tractus, ultra proprium ipsius inaeestimabilem usum, reliquis Harriot scriptis, de quorum editione iam serio cogitatur, pro necessario praeparamento sive introductorio opportune inservire possit. De qua

quidem accessoria operis huius utilitate rerum Mathematicarum studiosos paucis his  
praemonuisse operae precium esse duximus.