

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & & & & & \boxed{} \end{array}$$

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & 3 & & & & & \end{array}$$

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6+ & & & & \\ \hline & 3 & 6 & & & & \boxed{} \end{array}$$

Synthetic substitution

2	3	0	2	0	5	-7
		6	12			
	3	6				

$\cdot 2$

Synthetic substitution

$$\begin{array}{r|rrrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & + & & \\ \hline & 3 & 6 & 14 & & & \boxed{} \end{array}$$

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & & \\ \hline & 3 & 6 & 14 & & & \boxed{} \end{array}$$

An arrow points from the number 14 in the bottom row to the number 28 in the row above it, with a small $\cdot 2$ next to the arrowhead.

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & & \\ \hline & 3 & 6 & 14 & 28 & & \square \end{array}$$

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & 56 & \\ \hline & 3 & 6 & 14 & 28 & & \square \end{array}$$

An arrow points from the 28 in the bottom row to the 56 in the second row, with a $\cdot 2$ next to it.

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & 56 & + \\ \hline & 3 & 6 & 14 & 28 & 61 & \square \end{array}$$

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & 56 & 122 \\ \hline & 3 & 6 & 14 & 28 & 61 & \boxed{} \end{array}$$

↗
·2

Synthetic substitution

$$\begin{array}{r|rrrrrr} 2 & 3 & 0 & 2 & 0 & 5 & -7 \\ & & 6 & 12 & 28 & 56 & 122 \\ \hline & 3 & 6 & 14 & 28 & 61 & 115 \end{array}$$