$$
\left(z^{2}+2 z-24\right) \div(z-4)
$$

$$
\begin{aligned}
& z-4 \sqrt{z+6}+2 z-24 \\
& H \frac{z^{2}-4 z}{} \frac{z^{2}}{z}=z \\
& 6 z-24 \\
& \frac{6 z-24}{z}
\end{aligned}
$$

2A. $\left(x^{2}+7 x-30\right) \div(x-3)$

$$
x \frac{x+10}{x-3 \sqrt{x^{2}+7 x-30}} \rightarrow \frac{x^{2}}{x}=x
$$

$$
e \times 3
$$

$$
\begin{aligned}
& -t+5 \begin{array}{l}
\frac{-t-8+\frac{31}{-t+5}}{t^{2}+3 t-9} \\
\rightarrow \frac{t^{2}-5 t}{8 t-9} \\
\\
\rightarrow \frac{t^{2}}{-t}=-t-40 \\
31
\end{array} \quad \frac{8 t}{-t}=-8
\end{aligned}
$$

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$$
\begin{aligned}
& \text { ex. } 4\left(5 x^{3}-13 x^{2}+10 x-8\right) \div(x-2) \text {. } \\
& x-2 \frac{5 x^{2}-3 x+4}{5 x^{3}-13 x^{2}+10 x-8} \\
& \text { (-) } \frac{5 x^{3}-10 x^{2}}{-3 x^{2}+10 x} \\
& \frac{5 x^{3}}{x}=5 x^{2} \\
& \rightarrow-13 x^{2}+6 x \\
& \rightarrow \begin{array}{l}
4 \not x-8 \\
4 x-8
\end{array} \\
& \frac{4 x}{x}=4 \\
& 2 \times .5 \\
& \left(8 x^{4} \xlongequal{-} 4 x^{2}+x+4\right) \div(2 x+1) . \\
& 2 x + 1 \longdiv { 4 x ^ { 3 } - 2 x ^ { 2 } - x + 1 + \frac { 3 } { 2 x + 1 } } 8 \\
& \text { t) } 8 x^{4}+4 x^{3} \\
& \frac{-4 x^{3}}{2 x}=-2 x^{2} \\
& \begin{array}{l}
-4 x^{3}-4 x^{2} \\
\left(-2 x^{2}\right.
\end{array} \\
& \begin{array}{l}
\frac{-2 x^{2}}{2 x}=-x \\
\frac{2 x}{2 x}=1
\end{array}
\end{aligned}
$$

## $\left(8 y^{5}-2 y^{4}-16 y^{2}+4\right) \div(4 y-1)$

