

$$\begin{array}{r}
 x^3 - 4x^2 \\
 \hline
 x + 4 \big) x^4 \qquad \qquad + 2x - 4 \\
 \phantom{x + 4 \big)} - (x^4 + 4x^3) \\
 \hline
 \phantom{x + 4 \big)} \phantom{x^4} - 4x^3 \qquad \qquad + 2x - 4 \\
 \phantom{x + 4 \big)} \phantom{x^4} - (-4x^3 - 16x^2) \\
 \hline
 \phantom{x + 4 \big)} \phantom{x^4} \phantom{- 4x^3} 16x^2 + 2x - 4
 \end{array}$$