

$$\begin{array}{r} x - 16 \\ x^2 + 4x + 6 \overline{) x^3 - 12x^2 + 6x + 24} \\ \underline{-(x^3 + 4x^2 + 6x)} \\ -16x^2 + 0x + 24 \\ \underline{-(-16x^2 - 64x - 96)} \\ 64x + 120 \end{array}$$