

$$\begin{array}{r} \underline{x - 2)} \quad x^3 + 4x^2 \\ \underline{\underline{-}} \quad \quad \quad - 3 \end{array}$$

$$\frac{x^2}{x-2) \overline{)x^3 + 4x^2 - 3}}$$

$$\begin{array}{r} & & x^2 \\ & \overline{x - 2) \quad x^3 + 4x^2} \\ & - x^3 + 2x^2 \\ \hline & & \end{array} - 3$$

$$\begin{array}{r} & & x^2 \\ & \overline{x - 2) \quad x^3 + 4x^2} \\ & - x^3 + 2x^2 \\ \hline & & 6x^2 \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x \\ \hline x - 2) & \overline{x^3 + 4x^2} & & - 3 \\ & - x^3 + 2x^2 \\ \hline & & 6x^2 & \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x \\ \hline x - 2) & x^3 & + 4x^2 & \\ & - x^3 & + 2x^2 & \\ \hline & & 6x^2 & \\ & & - 6x^2 & + 12x \\ \hline & & & \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x \\ \hline x - 2) & x^3 & + 4x^2 & \\ & - x^3 & + 2x^2 & \\ \hline & & 6x^2 & \\ & & - 6x^2 & + 12x \\ \hline & & & 12x - 3 \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x + 12 \\ \hline x - 2) & x^3 & + 4x^2 & \\ & - x^3 & + 2x^2 & \\ \hline & & 6x^2 & \\ & & - 6x^2 & + 12x \\ \hline & & & 12x - 3 \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x + 12 \\ \hline x - 2) & x^3 & + 4x^2 & \\ & - x^3 & + 2x^2 & \\ \hline & & 6x^2 & \\ & & - 6x^2 & + 12x \\ \hline & & & 12x & - 3 \\ & & & - 12x & + 24 \\ \hline & & & & \end{array}$$

$$\begin{array}{r} & & x^2 & + 6x + 12 \\ \hline x - 2) & x^3 & + 4x^2 & \\ & - x^3 & + 2x^2 & \\ \hline & & 6x^2 & \\ & & - 6x^2 & + 12x \\ \hline & & 12x & - 3 \\ & & - 12x & + 24 \\ \hline & & & 21 \end{array}$$