

$$x^3 + 3x^2 - 10x - 24$$

$$\begin{array}{r} x^3 + 3x^2 - 10x - 24 \\ x^3 + 2x^2 - 13x^2 - 14x + 24 \\ \hline 3x^2 - 13x^2 - 14x + 24 \\ 3x^2 - 3x^2 \\ \hline -10x^2 - 14x + 24 \\ -10x^2 + 10x \\ \hline -24x + 24 \\ -24x + 24 \\ \hline = = \end{array}$$

$$x^2 + x - 12$$

$$\begin{array}{r} x^3 + 3x^2 - 10x - 24 \\ x^3 + 2x^2 \\ \hline x^2 - 10x - 24 \\ x^2 + 2x \\ \hline -12x - 24 \\ -12x - 24 \\ \hline = = \end{array}$$