

$$\boxed{1}x^2 - x - 6$$

$$1 \cdot (-6)$$

$$\begin{array}{r} -3 \\ \hline 1 \end{array} \quad \begin{array}{r} 2 \\ \hline 1 \end{array}$$

$$\begin{array}{r} -6 \\ -3 \quad +2 \quad -1 \end{array}$$

$$\boxed{(x-3)(x+2)}$$

$$x^2 + 2x - 3x - 6$$

$$x^2 - x - 6$$