

$$\textcircled{1} \begin{array}{l} x \rightarrow (-1) \\ 5x \rightarrow 6 \end{array}$$

$$6x + (-1)5x = 1x$$

\Rightarrow not matching
but close to $"-x"$

switching \rightarrow
"-" sign

$$\textcircled{2} \begin{array}{l} x \rightarrow 1 \\ 5x \rightarrow -6 \end{array}$$

$$(-1)x + 1 \cdot 5x = -x$$

\Rightarrow matching
with the middle
term

\textcircled{IV} Write down the result:

$$5x^2 - x - 6 = (x + 1)(5x - 6)$$

$$\begin{array}{l} x \rightarrow 1 \\ 5x \rightarrow -6 \end{array}$$