

$$\begin{array}{r}
 3x \\
 x^2 - 3x + 2 \overline{) \begin{array}{r} 3x^3 - 8x^2 + 4x - 1 \\ 3x^3 - 9x^2 + 6x \\ \hline x^2 - 2x - 1 \end{array}}
 \end{array}
 \longleftarrow 3x(x^2 - 3x + 2)$$