

$$\begin{array}{r|l}
 \begin{array}{r}
 x^3 - 2x^2 + 3x - 5 \\
 -(x^3 - 2x^2) \\
 \hline
 0 + 0 + 3x - 5 \\
 \quad -(3x - 6) \\
 \hline
 1
 \end{array} &
 \begin{array}{l}
 x - 2 \\
 x^2 + 3
 \end{array}
 \end{array}$$