$$\begin{array}{r|l} x^2 - 8x + 10 & x - 2 \\ \hline \end{array}$$

$$\begin{array}{r|l} x^2 - 8x + 10 & x - 2 \\ \hline & x \end{array}$$

$$\begin{array}{r|l} x^2 - 8x + 10 & x - 2 \\ \underline{-x^2 + 2x} & x \\ \hline \end{array}$$

$$\begin{array}{r|l} x^2 - 8x + 10 & x - 2 \\ \underline{-x^2 + 2x} & x \\ -6x + 10 \end{array}$$

$$\begin{array}{r|l} x^2 - 8x + 10 & x - 2 \\ \underline{-x^2 + 2x} & x - 6 \\ -6x + 10 \end{array}$$