

$$\begin{array}{r}
 5x^2 + 25x + 119 \\
 x - 5 \overline{) 5x^3 + 0x^2 - 6x + 2} \\
 \underline{-(5x^3 - 25x^2)}
 \end{array}$$

$$\begin{array}{r}
 25x^2 - 6x \\
 \underline{-(25x^2 - 125x)}
 \end{array}$$

$$\begin{array}{r}
 119x + 2 \\
 \underline{-(119x - 595)}
 \end{array}$$

$$119x - 595$$

$$597$$

recall polynomial  
long division