

$$\begin{array}{r}
 10x^2 + 10x - 27 \\
 \hline
 x^2 - x + 3 \left| \begin{array}{r}
 10x^4 \qquad \qquad - 7x^2 \qquad \qquad - 1 \\
 10x^4 - 10x^3 + 30x^2 \\
 \hline
 10x^3 - 37x^2 \qquad \qquad - 1 \\
 -10x^3 - 10x^2 + 30x \\
 \hline
 -27x^2 - 30x - 1 \\
 -27x^2 + 27x - 81 \\
 \hline
 -57x + 80
 \end{array} \right.
 \end{array}$$