$$
\begin{array}{r|rrrrrrr}
 & & & x^2 & - & 2x & + & 2 \\
\hline
x-2 & x^3 & - & 4x^2 & + & 6x & - & 4 \\
 & x^3 & - & 2x^2 & & & & \\
\cline{2-4}
 & & - & 2x^2 & + & 6x & & \\
 & & - & 2x^2 & + & 4x & & \\
\cline{3-6}
 & & & & & 2x & - & 4 \\
 & & & & & 2x & - & 4 \\
\cline{5-8}
 & & & & & & & 0
\end{array}
$$