$$+\tfrac{1}{4}A^2B^4$$

$$x^2+3x-2 \;\Big/\; x^4-2x^3-11x^2+30x-20 \;\Big|\; x^2+5x-24$$

$$\begin{array}{r}
x^4-3x^3+2x^2 \\
\hline
-5x^3-9x^2+30x \\
+5x^3-15x^2+10x \\
\hline
-24x^2+40x-20 \\
+24x^2+72x-48 \\
\hline
+112x-68
\end{array}$$

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

9

$$
\begin{array}{r|l}
x-3 & x^3 - 5x - 1 \\
\cline{2-2}
 & x^2 + 3x + 4 \\
 & -x^3 + 3x^2 \\
\cline{2-2}
 & +3x^2 - 5x \\
 & -3x^2 + 9x \\
\cline{2-2}
 & +4x - 1 \\
 & -4x + 12 \\
\cline{2-2}
 & +11
\end{array}
$$

8

$$x+2 \overline{)\, x^{10}+0x^9+0x^8+0x^7+0x^6+0x^5+0x^4+0x^3+0x^2+0x-1024 \;\Big|\; x^9-2x^8+4x^7-8x^6+16x^5-32x^4+64x^3-128x^2+256x-512}$$

$$\begin{array}{r} x^{10}-2x^9 \\ \hline -2x^9+0x^8 \\ -2x^9+4x^8 \\ \hline -4x^8+0x^7 \\ -4x^8+8x^7 \\ \hline -8x^7+0x^6 \\ -8x^7+16x^6 \\ \hline -16x^6+0x^5 \\ -16x^6+32x^5 \\ \hline -32x^5+0x^4 \\ -32x^5+64x^4 \\ \hline -64x^4+0x^3 \\ -64x^4+128x^3 \\ \hline -128x^3+0x^2 \\ -128x^3+256x^2 \\ \hline -256x^2+0x \\ -256x^2+512x \\ \hline -512x-1024 \\ -512x-1024 \end{array}$$