

2.

Which of the following is the Quotient of $-3x^6 + 3x^5 + 18x^4 - 14x^3 - 23x^2 + 4x - 8$ divided by $(-x - 1)x^2$

$$\begin{array}{r}
 + (3x^3) + (-6x^2) + (-12x) + (26) \\
 \hline
 (-x-1)x^2 \\
 (-3x^6) + (-3x^5) \\
 + (6x^5) + (18x^4) + (-14x^3) + (-23x^2) + (4x) + (-8) \\
 + (6x^5) + (6x^4) \\
 + (12x^4) + (-14x^3) + (-23x^2) + (4x) + (-8) \\
 + (12x^4) + (12x^3) \\
 + (-26x^3) + (-23x^2) + (4x) + (-8) \\
 + (-26x^3) + (-26x^2) \\
 + (3x^2) + (4x) + (-8)
 \end{array}$$

Coefficient list:

$\{3, -6, -12, 26\}$