

5.

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

$$\begin{array}{r}
 + (3f^3) + (6f^2) + (2) \\
 \hline
 (-f-1)(2-f)^2 \quad (-3)f^6 + (3)f^5 + (18)f^4 + (-14)f^3 + (-23)f^2 + (-4) \\
 + (-3f^6) + (9f^5) + (-12f^3) \\
 + (-6)f^5 + (18)f^4 + (-2)f^3 + (-23)f^2 + (-4) \\
 + (-6f^5) + (18f^4) + (-24f^2) \\
 + (-2)f^3 + (1)f^2 + (-4) \\
 + (-2f^3) + (6f^2) + (-8) \\
 + (-5f^2) + (4)
 \end{array}$$

Coefficient list:

$\{3, 6, 0, 2\}$