

2.

Which of the following is the Quotient of  $-3s^6 + 9s^5 + 3s^4 - 23s^3 + 3s^2 + 9s + 1$  divided by  $-(2-s)^2s$

$$\begin{array}{r}
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{+(9)s^5} \phantom{+(3)s^4} + (3s^3) + (3s^2) + (-3s) + (-1) \\
 \hline
 -(2-s)^2s \phantom{(-3)s^6} \phantom{+(9)s^5} \phantom{+(3)s^4} + (-23)s^3 + (3)s^2 + (9)s + (1) \\
 \phantom{-(2-s)^2s} (-3s^6) + (12s^5) + (-12s^4) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} + (-3)s^5 + (15)s^4 + (-23)s^3 + (3)s^2 + (9)s + (1) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} + (-3s^5) + (12s^4) + (-12s^3) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{(-3)s^5} + (3)s^4 + (-11)s^3 + (3)s^2 + (9)s + (1) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{(-3)s^5} + (3s^4) + (-12s^3) + (12s^2) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{(-3)s^5} \phantom{(3)s^4} + (1)s^3 + (-9)s^2 + (9)s + (1) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{(-3)s^5} \phantom{(3)s^4} + (s^3) + (-4s^2) + (4s) \\
 \phantom{-(2-s)^2s} \phantom{(-3)s^6} \phantom{(-3)s^5} \phantom{(3)s^4} \phantom{(s^3)} + (-5s^2) + (5s) + (1)
 \end{array}$$

Coefficient list:

$\{3, 3, -3, -1\}$