

2.

Which of the following is the Quotient of $-3s^6 + 9s^5 + 6s^4 - 38s^3 + 27s^2 + 4s - 8$ divided by $(1-s)s^2$

$$\begin{array}{r}
 + (\boxed{3s^3}) + (\boxed{-6s^2}) + (\boxed{-12s}) + (\boxed{26}) \\
 \hline
 (\boxed{1-s})s^2 + (-3)s^6 + (9)s^5 + (6)s^4 + (-38)s^3 + (27)s^2 + (4)s + (-8) \\
 + (\boxed{-3s^6}) + (\boxed{3s^5}) \\
 + (6)s^5 + (6)s^4 + (-38)s^3 + (27)s^2 + (4)s + (-8) \\
 + (\boxed{6s^5}) + (\boxed{-6s^4}) \\
 + (\boxed{12s^4}) + (-38)s^3 + (27)s^2 + (4)s + (-8) \\
 + (\boxed{12s^4}) + (\boxed{-12s^3}) \\
 + (-26)s^3 + (27)s^2 + (4)s + (-8) \\
 + (\boxed{-26s^3}) + (\boxed{26s^2}) \\
 + (\boxed{s^2}) + (\boxed{4s}) + (\boxed{-8})
 \end{array}$$

Coefficient list:

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