4.

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

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

Coefficient list:

{3, −6, −12, 26}