

## Multiplying a Monomial by Two Binomials (I)

Simplify each expression.

1.  $-5d^3(-d^2 + 4d)(-d^3 - 8d^2)$

2.  $9g^2(9g - 9)(-7g^4 + 8g^3)$

3.  $-3p(5p^5 + p^4)(-6p^5 - 7p^4)$

4.  $-9f^3(9f^3 + 8f^2)(8f - 4)$

5.  $-2n^2(-7n - 1)(-6n^4 - 3n^3)$

## Multiplying a Monomial by Two Binomials (I) Answers

Simplify each expression.

$$\begin{aligned} 1. & -5d^3(-d^2 + 4d)(-d^3 - 8d^2) \\ & = -5d^8 - 20d^7 + 160d^6 \end{aligned}$$

$$\begin{aligned} 2. & 9g^2(9g - 9)(-7g^4 + 8g^3) \\ & = -567g^7 + 1215g^6 - 648g^5 \end{aligned}$$

$$\begin{aligned} 3. & -3p(5p^5 + p^4)(-6p^5 - 7p^4) \\ & = 90p^{11} + 123p^{10} + 21p^9 \end{aligned}$$

$$\begin{aligned} 4. & -9f^3(9f^3 + 8f^2)(8f - 4) \\ & = -648f^7 - 252f^6 + 288f^5 \end{aligned}$$

$$\begin{aligned} 5. & -2n^2(-7n - 1)(-6n^4 - 3n^3) \\ & = -84n^7 - 54n^6 - 6n^5 \end{aligned}$$