

## Multiplication de Monômes et Polynômes (C)

Simplifiez chaque expression.

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

2.  $(-q^3 - 7q^2 - 8q)(-q - 7)$

3.  $(5g^4 + 6g^3)(-9g^4 + 9g^3 + 2g^2)$

4.  $(3f^5 - 9f^4)(2f^5 - f^4 + 9f^3)$

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

6.  $-4r^5(-3r^4 - 8r^3)$

7.  $4c^5(c^4 + 3c^3 - 8c^2)$

8.  $(-5c^3 - 8c^2)(3c^3 + c^2)$

9.  $(-9k^3 - k^2 - k)(-8k^2 + 6k)$

10.  $(3s + 9)(-7s^5 + 9s^4 + s^3)$

# Multiplication de Monômes et Polynômes (C) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -3c^5(4c^2 + 5c + 3) \\ & = -12c^7 - 15c^6 - 9c^5 \end{aligned}$$

$$\begin{aligned} 2. & (-q^3 - 7q^2 - 8q)(-q - 7) \\ & = q^4 + 14q^3 + 57q^2 + 56q \end{aligned}$$

$$\begin{aligned} 3. & (5g^4 + 6g^3)(-9g^4 + 9g^3 + 2g^2) \\ & = -45g^8 - 9g^7 + 64g^6 + 12g^5 \end{aligned}$$

$$\begin{aligned} 4. & (3f^5 - 9f^4)(2f^5 - f^4 + 9f^3) \\ & = 6f^{10} - 21f^9 + 36f^8 - 81f^7 \end{aligned}$$

$$\begin{aligned} 5. & (-3y^3 + y^2 + 8y)(3y^2 - 4y) \\ & = -9y^5 + 15y^4 + 20y^3 - 32y^2 \end{aligned}$$

$$\begin{aligned} 6. & -4r^5(-3r^4 - 8r^3) \\ & = 12r^9 + 32r^8 \end{aligned}$$

$$\begin{aligned} 7. & 4c^5(c^4 + 3c^3 - 8c^2) \\ & = 4c^9 + 12c^8 - 32c^7 \end{aligned}$$

$$\begin{aligned} 8. & (-5c^3 - 8c^2)(3c^3 + c^2) \\ & = -15c^6 - 29c^5 - 8c^4 \end{aligned}$$

$$\begin{aligned} 9. & (-9k^3 - k^2 - k)(-8k^2 + 6k) \\ & = 72k^5 - 46k^4 + 2k^3 - 6k^2 \end{aligned}$$

$$\begin{aligned} 10. & (3s + 9)(-7s^5 + 9s^4 + s^3) \\ & = -21s^6 - 36s^5 + 84s^4 + 9s^3 \end{aligned}$$