

Multiplication d'un Monôme par un Trinôme (E)

Simplifiez chaque expression.

1. $-6a^4(-9a^3 + 9a^2 - 9a)$

2. $3x^4(-4x^4 - 6x^3 - 5x^2)$

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

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

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

6. $-7c(2c^4 + 7c^3 + 9c^2)$

7. $-8p(-6p^3 - 7p^2 + 3p)$

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

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

10. $5c(-7c^2 + c - 6)$

Multiplication d'un Monôme par un Trinôme (E) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -6a^4(-9a^3 + 9a^2 - 9a) \\ & = 54a^7 - 54a^6 + 54a^5 \end{aligned}$$

$$\begin{aligned} 2. & 3x^4(-4x^4 - 6x^3 - 5x^2) \\ & = -12x^8 - 18x^7 - 15x^6 \end{aligned}$$

$$\begin{aligned} 3. & 9z^5(5z^5 + 4z^4 - 7z^3) \\ & = 45z^{10} + 36z^9 - 63z^8 \end{aligned}$$

$$\begin{aligned} 4. & -x^3(-7x^3 + 5x^2 - 4x) \\ & = 7x^6 - 5x^5 + 4x^4 \end{aligned}$$

$$\begin{aligned} 5. & -4h^2(2h^3 - 9h^2 + 9h) \\ & = -8h^5 + 36h^4 - 36h^3 \end{aligned}$$

$$\begin{aligned} 6. & -7c(2c^4 + 7c^3 + 9c^2) \\ & = -14c^5 - 49c^4 - 63c^3 \end{aligned}$$

$$\begin{aligned} 7. & -8p(-6p^3 - 7p^2 + 3p) \\ & = 48p^4 + 56p^3 - 24p^2 \end{aligned}$$

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

$$\begin{aligned} 9. & -4s^4(8s^3 - s^2 + 8s) \\ & = -32s^7 + 4s^6 - 32s^5 \end{aligned}$$

$$\begin{aligned} 10. & 5c(-7c^2 + c - 6) \\ & = -35c^3 + 5c^2 - 30c \end{aligned}$$