

Multiplication d'un Binôme par un Trinôme (I)

Simplifiez chaque expression.

1. $(3q + 1)(-4q^3 - 4q^2 + q)$

2. $(4y^2 - 3y)(-4y^4 - 6y^3 - 2y^2)$

3. $(-5f^3 - 6f^2)(-8f^5 - 4f^4 - 5f^3)$

4. $(4v^2 + v)(9v^5 + 6v^4 + 7v^3)$

5. $(5q^4 + 4q^3)(-4q^2 + 3q + 3)$

6. $(-8b^2 + 5b)(-9b^3 + 5b^2 + 5b)$

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

8. $(-x^4 + 2x^3)(-3x^2 + 8x - 2)$

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

10. $(-9a^4 - a^3)(-8a^2 + a - 8)$

Multiplication d'un Binôme par un Trinôme (I) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (3q + 1)(-4q^3 - 4q^2 + q) \\ & = -12q^4 - 16q^3 - q^2 + q \end{aligned}$$

$$\begin{aligned} 2. & (4y^2 - 3y)(-4y^4 - 6y^3 - 2y^2) \\ & = -16y^6 - 12y^5 + 10y^4 + 6y^3 \end{aligned}$$

$$\begin{aligned} 3. & (-5f^3 - 6f^2)(-8f^5 - 4f^4 - 5f^3) \\ & = 40f^8 + 68f^7 + 49f^6 + 30f^5 \end{aligned}$$

$$\begin{aligned} 4. & (4v^2 + v)(9v^5 + 6v^4 + 7v^3) \\ & = 36v^7 + 33v^6 + 34v^5 + 7v^4 \end{aligned}$$

$$\begin{aligned} 5. & (5q^4 + 4q^3)(-4q^2 + 3q + 3) \\ & = -20q^6 - q^5 + 27q^4 + 12q^3 \end{aligned}$$

$$\begin{aligned} 6. & (-8b^2 + 5b)(-9b^3 + 5b^2 + 5b) \\ & = 72b^5 - 85b^4 - 15b^3 + 25b^2 \end{aligned}$$

$$\begin{aligned} 7. & (3c - 3)(-3c^5 - 7c^4 + 7c^3) \\ & = -9c^6 - 12c^5 + 42c^4 - 21c^3 \end{aligned}$$

$$\begin{aligned} 8. & (-x^4 + 2x^3)(-3x^2 + 8x - 2) \\ & = 3x^6 - 14x^5 + 18x^4 - 4x^3 \end{aligned}$$

$$\begin{aligned} 9. & (m^3 + 5m^2)(-8m^5 - m^4 + m^3) \\ & = -8m^8 - 41m^7 - 4m^6 + 5m^5 \end{aligned}$$

$$\begin{aligned} 10. & (-9a^4 - a^3)(-8a^2 + a - 8) \\ & = 72a^6 - a^5 + 71a^4 + 8a^3 \end{aligned}$$