

Multiplication d'un Binôme par Deux Trinômes (J)

Simplifiez chaque expression.

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

2. $(-9q^5 + 2q^4)(-q^3 - 3q^2 - 7q)(-q^5 + 4q^4 + 2q^3)$

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

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

5. $(6k + 3)(k^3 + 3k^2 + 5k)(-2k^3 - 5k^2 + 6k)$

6. $(-8n^3 - 6n^2)(-3n^5 - 9n^4 - 8n^3)(-5n^5 + 9n^4 + 4n^3)$

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

8. $(-7y - 4)(4y^2 - y - 5)(y^4 - y^3 - 9y^2)$

9. $(3r + 9)(-7r^4 - 8r^3 + r^2)(7r^3 - 2r^2 + 5r)$

10. $(5t^5 + 5t^4)(5t^3 - 7t^2 + 5t)(4t^4 - 4t^3 + 9t^2)$

Multiplication d'un Binôme par Deux Trinômes (J) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (-w^5 + 8w^4)(-2w^2 + 2w - 5)(5w^3 + 9w^2 + w) \\ & = 10w^{10} - 72w^9 - 55w^8 - 29w^7 - 339w^6 - 40w^5 \end{aligned}$$

$$\begin{aligned} 2. & (-9q^5 + 2q^4)(-q^3 - 3q^2 - 7q)(-q^5 + 4q^4 + 2q^3) \\ & = -9q^{13} + 11q^{12} + 61q^{11} + 292q^{10} + 58q^9 - 28q^8 \end{aligned}$$

$$\begin{aligned} 3. & (-3f - 5)(-8f^4 - 7f^3 - 3f^2)(-7f^4 + 4f^3 - 7f^2) \\ & = -168f^9 - 331f^8 - 232f^7 - 356f^6 - 248f^5 - 105f^4 \end{aligned}$$

$$\begin{aligned} 4. & (2v^4 + 3v^3)(-2v^5 + 2v^4 + 2v^3)(-3v^2 + 7v + 6) \\ & = 12v^{11} - 22v^{10} - 68v^9 + 40v^8 + 102v^7 + 36v^6 \end{aligned}$$

$$\begin{aligned} 5. & (6k + 3)(k^3 + 3k^2 + 5k)(-2k^3 - 5k^2 + 6k) \\ & = -12k^7 - 72k^6 - 147k^5 - 99k^4 + 159k^3 + 90k^2 \end{aligned}$$

$$\begin{aligned} 6. & (-8n^3 - 6n^2)(-3n^5 - 9n^4 - 8n^3)(-5n^5 + 9n^4 + 4n^3) \\ & = -120n^{13} - 234n^{12} + 316n^{11} + 1182n^{10} + 904n^9 + 192n^8 \end{aligned}$$

$$\begin{aligned} 7. & (2f^3 - 6f^2)(4f^2 + f - 7)(f^3 - 7f^2 + 9f) \\ & = 8f^8 - 78f^7 + 206f^6 - 16f^5 - 474f^4 + 378f^3 \end{aligned}$$

$$\begin{aligned} 8. & (-7y - 4)(4y^2 - y - 5)(y^4 - y^3 - 9y^2) \\ & = -28y^7 + 19y^6 + 300y^5 + 62y^4 - 371y^3 - 180y^2 \end{aligned}$$

$$\begin{aligned} 9. & (3r + 9)(-7r^4 - 8r^3 + r^2)(7r^3 - 2r^2 + 5r) \\ & = -147r^8 - 567r^7 - 414r^6 - 234r^5 - 363r^4 + 45r^3 \end{aligned}$$

$$\begin{aligned} 10. & (5t^5 + 5t^4)(5t^3 - 7t^2 + 5t)(4t^4 - 4t^3 + 9t^2) \\ & = 100t^{12} - 140t^{11} + 225t^{10} + 50t^9 - 190t^8 + 225t^7 \end{aligned}$$