

Multiplication de Deux Binômes par un Trinôme (G)

Simplifiez chaque expression.

1. $(4h^5 - 2h^4)(2h^4 + 9h^3)(7h^2 - 5h - 6)$

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

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

4. $(-2x^5 - 4x^4)(-8x^3 - 3x^2)(-6x^5 + 7x^4 - x^3)$

5. $(6q^3 - 8q^2)(q^5 + 7q^4)(6q^4 + q^3 + 6q^2)$

6. $(v^3 + 6v^2)(-8v^2 - 8v)(-v^3 - 7v^2 + 5v)$

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

8. $(-4x^4 - 5x^3)(6x^3 + 6x^2)(7x^3 - 8x^2 - 7x)$

9. $(-5g^3 - 8g^2)(-5g^2 + g)(-6g^5 + 4g^4 - 7g^3)$

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

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (4h^5 - 2h^4)(2h^4 + 9h^3)(7h^2 - 5h - 6) \\ & = 56h^{11} + 184h^{10} - 334h^9 - 102h^8 + 108h^7 \end{aligned}$$

$$\begin{aligned} 2. & (2s^3 + 8s^2)(5s + 8)(-6s^3 + 8s^2 + 5s) \\ & = -60s^7 - 256s^6 + 114s^5 + 792s^4 + 320s^3 \end{aligned}$$

$$\begin{aligned} 3. & (-f - 3)(-f^2 - f)(-6f^5 + 3f^4 - 9f^3) \\ & = -6f^8 - 21f^7 - 15f^6 - 27f^5 - 27f^4 \end{aligned}$$

$$\begin{aligned} 4. & (-2x^5 - 4x^4)(-8x^3 - 3x^2)(-6x^5 + 7x^4 - x^3) \\ & = -96x^{13} - 116x^{12} + 178x^{11} + 46x^{10} - 12x^9 \end{aligned}$$

$$\begin{aligned} 5. & (6q^3 - 8q^2)(q^5 + 7q^4)(6q^4 + q^3 + 6q^2) \\ & = 36q^{12} + 210q^{11} - 266q^{10} + 148q^9 - 336q^8 \end{aligned}$$

$$\begin{aligned} 6. & (v^3 + 6v^2)(-8v^2 - 8v)(-v^3 - 7v^2 + 5v) \\ & = 8v^8 + 112v^7 + 400v^6 + 56v^5 - 240v^4 \end{aligned}$$

$$\begin{aligned} 7. & (6w^2 - 4w)(3w^4 - 7w^3)(w^5 - 6w^4 + 3w^3) \\ & = 18w^{11} - 162w^{10} + 406w^9 - 330w^8 + 84w^7 \end{aligned}$$

$$\begin{aligned} 8. & (-4x^4 - 5x^3)(6x^3 + 6x^2)(7x^3 - 8x^2 - 7x) \\ & = -168x^{10} - 186x^9 + 390x^8 + 618x^7 + 210x^6 \end{aligned}$$

$$\begin{aligned} 9. & (-5g^3 - 8g^2)(-5g^2 + g)(-6g^5 + 4g^4 - 7g^3) \\ & = -150g^{10} - 110g^9 + 13g^8 - 277g^7 + 56g^6 \end{aligned}$$

$$\begin{aligned} 10. & (-4t^5 + 4t^4)(-3t^4 - 4t^3)(2t^4 - 9t^3 + 7t^2) \\ & = 24t^{13} - 100t^{12} + 16t^{11} + 172t^{10} - 112t^9 \end{aligned}$$