

Multiplication d'un Monôme par Deux Binômes (J)

Simplifiez chaque expression.

1. $-2z^5(5z^2 - 4z)(z^3 + 7z^2)$

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

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

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

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

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

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

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

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

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

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -2z^5(5z^2 - 4z)(z^3 + 7z^2) \\ & = -10z^{10} - 62z^9 + 56z^8 \end{aligned}$$

$$\begin{aligned} 2. & -5c(-4c^4 + 9c^3)(-8c^5 + 8c^4) \\ & = -160c^{10} + 520c^9 - 360c^8 \end{aligned}$$

$$\begin{aligned} 3. & -8g^3(-2g^5 + 7g^4)(-8g - 8) \\ & = -128g^9 + 320g^8 + 448g^7 \end{aligned}$$

$$\begin{aligned} 4. & -3q^5(9q^3 - 7q^2)(8q^4 - 4q^3) \\ & = -216q^{12} + 276q^{11} - 84q^{10} \end{aligned}$$

$$\begin{aligned} 5. & -9h^4(5h^3 + 6h^2)(-9h^3 - 9h^2) \\ & = 405h^{10} + 891h^9 + 486h^8 \end{aligned}$$

$$\begin{aligned} 6. & 5x^3(8x^2 - 9x)(3x^2 - 3x) \\ & = 120x^7 - 255x^6 + 135x^5 \end{aligned}$$

$$\begin{aligned} 7. & -9g^2(-6g^3 + 4g^2)(-3g^2 - 6g) \\ & = -162g^7 - 216g^6 + 216g^5 \end{aligned}$$

$$\begin{aligned} 8. & -7m^4(-8m^3 + 7m^2)(8m^5 + 7m^4) \\ & = 448m^{12} - 343m^{10} \end{aligned}$$

$$\begin{aligned} 9. & -5n^5(-8n^2 + 6n)(2n^5 + 5n^4) \\ & = 80n^{12} + 140n^{11} - 150n^{10} \end{aligned}$$

$$\begin{aligned} 10. & -3x^3(8x^4 - 9x^3)(4x^2 + 3x) \\ & = -96x^9 + 36x^8 + 81x^7 \end{aligned}$$