

Multiplication d'un Monôme par Deux Binômes (G)

Simplifiez chaque expression.

1. $-2q^2(7q^4 - 4q^3)(-2q^2 - 4q)$

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

3. $2r^3(7r + 3)(2r^3 - 3r^2)$

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

5. $6n^3(-4n^4 - 7n^3)(8n - 8)$

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

7. $9c^2(c + 8)(3c - 3)$

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

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

10. $7y^4(6y + 4)(y^4 + 7y^3)$

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -2q^2(7q^4 - 4q^3)(-2q^2 - 4q) \\ & = 28q^8 + 40q^7 - 32q^6 \end{aligned}$$

$$\begin{aligned} 2. & -9w^2(8w^4 + 7w^3)(-w^4 - 9w^3) \\ & = 72w^{10} + 711w^9 + 567w^8 \end{aligned}$$

$$\begin{aligned} 3. & 2r^3(7r + 3)(2r^3 - 3r^2) \\ & = 28r^7 - 30r^6 - 18r^5 \end{aligned}$$

$$\begin{aligned} 4. & 7c^3(5c - 9)(-8c^2 - 4c) \\ & = -280c^6 + 364c^5 + 252c^4 \end{aligned}$$

$$\begin{aligned} 5. & 6n^3(-4n^4 - 7n^3)(8n - 8) \\ & = -192n^8 - 144n^7 + 336n^6 \end{aligned}$$

$$\begin{aligned} 6. & 7a^5(2a + 9)(-6a^4 + 5a^3) \\ & = -84a^{10} - 308a^9 + 315a^8 \end{aligned}$$

$$\begin{aligned} 7. & 9c^2(c + 8)(3c - 3) \\ & = 27c^4 + 189c^3 - 216c^2 \end{aligned}$$

$$\begin{aligned} 8. & -b^5(6b^3 + 2b^2)(b + 6) \\ & = -6b^9 - 38b^8 - 12b^7 \end{aligned}$$

$$\begin{aligned} 9. & -d^5(-6d^3 + 3d^2)(-4d^3 + 2d^2) \\ & = -24d^{11} + 24d^{10} - 6d^9 \end{aligned}$$

$$\begin{aligned} 10. & 7y^4(6y + 4)(y^4 + 7y^3) \\ & = 42y^9 + 322y^8 + 196y^7 \end{aligned}$$