

Multiplication d'un Monôme par Deux Binômes (F)

Simplifiez chaque expression.

1. $4m^3(-3m^2 - 3m)(7m^4 + 9m^3)$

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

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

4. $-3b^2(-b^4 - b^3)(-7b^5 - 3b^4)$

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

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

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

8. $6c^4(4c - 8)(-8c^4 - 8c^3)$

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

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

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 4m^3(-3m^2 - 3m)(7m^4 + 9m^3) \\ & = -84m^9 - 192m^8 - 108m^7 \end{aligned}$$

$$\begin{aligned} 2. & -2f^3(6f^5 - 3f^4)(-9f^3 + 6f^2) \\ & = 108f^{11} - 126f^{10} + 36f^9 \end{aligned}$$

$$\begin{aligned} 3. & -2m^5(6m^5 + m^4)(5m^2 + 9m) \\ & = -60m^{12} - 118m^{11} - 18m^{10} \end{aligned}$$

$$\begin{aligned} 4. & -3b^2(-b^4 - b^3)(-7b^5 - 3b^4) \\ & = -21b^{11} - 30b^{10} - 9b^9 \end{aligned}$$

$$\begin{aligned} 5. & 4g^4(7g + 8)(8g - 6) \\ & = 224g^6 + 88g^5 - 192g^4 \end{aligned}$$

$$\begin{aligned} 6. & -6s^5(-9s^5 + 8s^4)(3s^4 + 4s^3) \\ & = 162s^{14} + 72s^{13} - 192s^{12} \end{aligned}$$

$$\begin{aligned} 7. & 3h(-6h^5 - 4h^4)(-4h^2 + 8h) \\ & = 72h^8 - 96h^7 - 96h^6 \end{aligned}$$

$$\begin{aligned} 8. & 6c^4(4c - 8)(-8c^4 - 8c^3) \\ & = -192c^9 + 192c^8 + 384c^7 \end{aligned}$$

$$\begin{aligned} 9. & 3x^4(8x^5 - 2x^4)(9x^3 - 5x^2) \\ & = 216x^{12} - 174x^{11} + 30x^{10} \end{aligned}$$

$$\begin{aligned} 10. & 2f^2(9f^4 + 2f^3)(7f^4 - 2f^3) \\ & = 126f^{10} - 8f^9 - 8f^8 \end{aligned}$$