

Multiplication d'un Monôme par Deux Binômes (D)

Simplifiez chaque expression.

1. $-3z^5(z^5 - 6z^4)(-6z^5 + 8z^4)$

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

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

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

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

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

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

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

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

10. $7h^2(-3h^2 - 2h)(-2h^3 + 8h^2)$

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -3z^5(z^5 - 6z^4)(-6z^5 + 8z^4) \\ & = 18z^{15} - 132z^{14} + 144z^{13} \end{aligned}$$

$$\begin{aligned} 2. & -8g^5(-g + 7)(-9g^3 + g^2) \\ & = -72g^9 + 512g^8 - 56g^7 \end{aligned}$$

$$\begin{aligned} 3. & 5d^4(-8d^4 + d^3)(-7d^5 + 3d^4) \\ & = 280d^{13} - 155d^{12} + 15d^{11} \end{aligned}$$

$$\begin{aligned} 4. & 7f^5(6f^4 - 6f^3)(-2f^5 + 7f^4) \\ & = -84f^{14} + 378f^{13} - 294f^{12} \end{aligned}$$

$$\begin{aligned} 5. & 5v^4(-9v^4 + 9v^3)(3v^2 + v) \\ & = -135v^{10} + 90v^9 + 45v^8 \end{aligned}$$

$$\begin{aligned} 6. & -5s^4(8s^3 + 9s^2)(9s^5 + s^4) \\ & = -360s^{12} - 445s^{11} - 45s^{10} \end{aligned}$$

$$\begin{aligned} 7. & 9w^5(-9w^5 + 6w^4)(-4w^3 - 7w^2) \\ & = 324w^{13} + 351w^{12} - 378w^{11} \end{aligned}$$

$$\begin{aligned} 8. & 9k^4(-9k + 2)(6k - 6) \\ & = -486k^6 + 594k^5 - 108k^4 \end{aligned}$$

$$\begin{aligned} 9. & 6t^3(-5t^2 - 2t)(5t^2 - 4t) \\ & = -150t^7 + 60t^6 + 48t^5 \end{aligned}$$

$$\begin{aligned} 10. & 7h^2(-3h^2 - 2h)(-2h^3 + 8h^2) \\ & = 42h^7 - 140h^6 - 112h^5 \end{aligned}$$