

Multiplication de Deux Binômes par un Trinôme (I)

Simplifiez chaque expression.

1. $(7g + 6)(3g^3 - 9g^2)(-2g^4 + g^3 - 8g^2)$

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

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

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

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

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

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

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

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

10. $(9c + 8)(5c^2 + 2c)(4c^2 - 8c + 4)$

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Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (7g + 6)(3g^3 - 9g^2)(-2g^4 + g^3 - 8g^2) \\ & = -42g^8 + 111g^7 - 105g^6 + 306g^5 + 432g^4 \end{aligned}$$

$$\begin{aligned} 2. & (4d^2 + 8d)(8d + 7)(-2d^4 - 4d^3 + 3d^2) \\ & = -64d^7 - 312d^6 - 384d^5 + 52d^4 + 168d^3 \end{aligned}$$

$$\begin{aligned} 3. & (-9p^2 - 3p)(-6p^3 - 5p^2)(p^2 + 5p - 5) \\ & = 54p^7 + 333p^6 + 60p^5 - 240p^4 - 75p^3 \end{aligned}$$

$$\begin{aligned} 4. & (-4g - 9)(7g + 4)(g^4 + 4g^3 - 9g^2) \\ & = -28g^6 - 191g^5 - 100g^4 + 567g^3 + 324g^2 \end{aligned}$$

$$\begin{aligned} 5. & (4r^2 - 6r)(-9r^2 - 9r)(-r^2 - 4r + 8) \\ & = 36r^6 + 126r^5 - 414r^4 - 72r^3 + 432r^2 \end{aligned}$$

$$\begin{aligned} 6. & (5z^3 - 3z^2)(9z + 6)(3z^3 + 6z^2 - 8z) \\ & = 135z^7 + 279z^6 - 396z^5 - 132z^4 + 144z^3 \end{aligned}$$

$$\begin{aligned} 7. & (-9b^2 - 7b)(2b^4 - b^3)(-6b^3 + 9b^2 + 7b) \\ & = 108b^9 - 132b^8 - 213b^7 + 28b^6 + 49b^5 \end{aligned}$$

$$\begin{aligned} 8. & (5k^5 + 6k^4)(3k^3 - 9k^2)(-7k^3 + 2k^2 - 7k) \\ & = -105k^{11} + 219k^{10} + 219k^9 + 81k^8 + 378k^7 \end{aligned}$$

$$\begin{aligned} 9. & (9c^4 - 9c^3)(-c^4 + 7c^3)(-8c^3 + 7c^2 - 2c) \\ & = 72c^{11} - 639c^{10} + 1026c^9 - 585c^8 + 126c^7 \end{aligned}$$

$$\begin{aligned} 10. & (9c + 8)(5c^2 + 2c)(4c^2 - 8c + 4) \\ & = 180c^5 - 128c^4 - 220c^3 + 104c^2 + 64c \end{aligned}$$