

## Multiplication de Deux Binômes par un Trinôme (J)

Simplifiez chaque expression.

1.  $(-6v - 8)(-9v^3 - v^2)(-5v^3 + 3v^2 + 2v)$
2.  $(-5m^5 + 2m^4)(4m + 5)(8m^5 - m^4 + 7m^3)$
3.  $(4d^5 + d^4)(4d^5 - 7d^4)(-7d^5 - 5d^4 - 4d^3)$
4.  $(8a^3 - 6a^2)(-a^2 - a)(-7a^4 - 3a^3 - 7a^2)$
5.  $(-2g^5 - 4g^4)(8g^3 - 9g^2)(-3g^5 - 5g^4 + 9g^3)$
6.  $(5w^5 - 6w^4)(5w^3 + 7w^2)(5w^4 + 2w^3 + 8w^2)$
7.  $(2t^3 - 3t^2)(-t^4 + 8t^3)(2t^3 + 4t^2 - t)$
8.  $(3q^3 - 3q^2)(8q - 9)(-4q^4 + 9q^3 + 7q^2)$
9.  $(-2k^5 + 9k^4)(-3k^4 - 4k^3)(3k^3 + 6k^2 - 5k)$
10.  $(7a^2 + 4a)(-3a^3 - 2a^2)(-3a^4 - 3a^3 - 8a^2)$

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## Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (-6v - 8)(-9v^3 - v^2)(-5v^3 + 3v^2 + 2v) \\ & = -270v^7 - 228v^6 + 302v^5 + 180v^4 + 16v^3 \end{aligned}$$

$$\begin{aligned} 2. & (-5m^5 + 2m^4)(4m + 5)(8m^5 - m^4 + 7m^3) \\ & = -160m^{11} - 116m^{10} - 43m^9 - 129m^8 + 70m^7 \end{aligned}$$

$$\begin{aligned} 3. & (4d^5 + d^4)(4d^5 - 7d^4)(-7d^5 - 5d^4 - 4d^3) \\ & = -112d^{15} + 88d^{14} + 105d^{13} + 131d^{12} + 28d^{11} \end{aligned}$$

$$\begin{aligned} 4. & (8a^3 - 6a^2)(-a^2 - a)(-7a^4 - 3a^3 - 7a^2) \\ & = 56a^9 + 38a^8 + 20a^7 - 4a^6 - 42a^5 \end{aligned}$$

$$\begin{aligned} 5. & (-2g^5 - 4g^4)(8g^3 - 9g^2)(-3g^5 - 5g^4 + 9g^3) \\ & = 48g^{13} + 122g^{12} - 182g^{11} - 306g^{10} + 324g^9 \end{aligned}$$

$$\begin{aligned} 6. & (5w^5 - 6w^4)(5w^3 + 7w^2)(5w^4 + 2w^3 + 8w^2) \\ & = 125w^{12} + 75w^{11} - 44w^9 - 336w^8 \end{aligned}$$

$$\begin{aligned} 7. & (2t^3 - 3t^2)(-t^4 + 8t^3)(2t^3 + 4t^2 - t) \\ & = -4t^{10} + 30t^9 + 30t^8 - 115t^7 + 24t^6 \end{aligned}$$

$$\begin{aligned} 8. & (3q^3 - 3q^2)(8q - 9)(-4q^4 + 9q^3 + 7q^2) \\ & = -96q^8 + 420q^7 - 399q^6 - 114q^5 + 189q^4 \end{aligned}$$

$$\begin{aligned} 9. & (-2k^5 + 9k^4)(-3k^4 - 4k^3)(3k^3 + 6k^2 - 5k) \\ & = 18k^{12} - 21k^{11} - 252k^{10} - 121k^9 + 180k^8 \end{aligned}$$

$$\begin{aligned} 10. & (7a^2 + 4a)(-3a^3 - 2a^2)(-3a^4 - 3a^3 - 8a^2) \\ & = 63a^9 + 141a^8 + 270a^7 + 232a^6 + 64a^5 \end{aligned}$$