

Multiplication de Trois Monômes ou Polynômes Aléatoires (F)

Simplifiez chaque expression.

1. $(4k^4 - 7k^3)(6k - 1)(-2k^5 + 3k^4 + 7k^3)$

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

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

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

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

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(F) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (4k^4 - 7k^3)(6k - 1)(-2k^5 + 3k^4 + 7k^3) \\ & = -48k^{10} + 164k^9 + 16k^8 - 301k^7 + 49k^6 \end{aligned}$$

$$\begin{aligned} 2. & 7h^4(8h^5 + 3h^4)(9h^5 - 7h^4 + h^3) \\ & = 504h^{14} - 203h^{13} - 91h^{12} + 21h^{11} \end{aligned}$$

$$\begin{aligned} 3. & (-3v^2 + 8v - 4)(-9v + 4)(9v^2 - 8v - 6) \\ & = 243v^5 - 972v^4 + 1122v^3 - 184v^2 - 280v + 96 \end{aligned}$$

$$\begin{aligned} 4. & (w^3 + w^2 + 5w)(7w^4 + w^3 + 7w^2)(-6w^5 - 6w^4) \\ & = -42w^{12} - 90w^{11} - 306w^{10} - 330w^9 - 282w^8 - 210w^7 \end{aligned}$$

$$\begin{aligned} 5. & (-9q^4 - 9q^3 + 6q^2)(9q^2 + 6q + 4)(-9q^3 + 2q^2 + q) \\ & = 729q^9 + 1053q^8 - 27q^7 - 207q^6 - 252q^5 + 48q^4 + 24q^3 \end{aligned}$$