

Multiplication de Trois Monômes ou Polynômes Aléatoires (E)

Simplifiez chaque expression.

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

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

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

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

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

Multiplication de Trois Monômes ou Polynômes Aléatoires

(E) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (-9h^3 - 2h^2)(8h^2 + 3h + 7)(-7h^3 + 4h^2 - 7h) \\ & = 504h^8 + 13h^7 + 815h^6 + 123h^5 + 427h^4 + 98h^3 \end{aligned}$$

$$\begin{aligned} 2. & (6p^3 - 8p^2)(-6p^3 + 3p^2)(-7p^3 + 4p^2) \\ & = 252p^9 - 606p^8 + 432p^7 - 96p^6 \end{aligned}$$

$$\begin{aligned} 3. & 3f^4(7f^4 + f^3 + 3f^2)(f^4 - 7f^3) \\ & = 21f^{12} - 144f^{11} - 12f^{10} - 63f^9 \end{aligned}$$

$$\begin{aligned} 4. & -8t(-4t^5 - 4t^4)(-2t^2 + 9t + 7) \\ & = -64t^8 + 224t^7 + 512t^6 + 224t^5 \end{aligned}$$

$$\begin{aligned} 5. & (6x^4 + 7x^3 + 6x^2)(2x^5 - 8x^4)(-8x^2 + 3x) \\ & = -96x^{11} + 308x^{10} + 250x^9 + 252x^8 - 144x^7 \end{aligned}$$