

Multiplication de Trois Monômes ou Polynômes Aléatoires (G)

Simplifiez chaque expression.

1. $(p^3 - 5p^2 + 8p)(-4p^2 + 2p - 7)(p^2 + p - 2)$

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

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

4. $-8g^4(-g^3 + g^2)(-4g^4 - 8g^3)$

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

Multiplication de Trois Monômes ou Polynômes Aléatoires

(G) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (p^3 - 5p^2 + 8p)(-4p^2 + 2p - 7)(p^2 + p - 2) \\ & = -4p^7 + 18p^6 - 19p^5 - 42p^4 + 93p^3 - 158p^2 + 112p \end{aligned}$$

$$\begin{aligned} 2. & (-m^4 + 9m^3 + 5m^2)(-8m^3 - 6m^2)(-9m^4 + 8m^3) \\ & = -72m^{11} + 658m^{10} + 318m^9 - 482m^8 - 240m^7 \end{aligned}$$

$$\begin{aligned} 3. & (9y - 6)(4y^2 - 4y)(-7y^3 + 8y^2) \\ & = -252y^6 + 708y^5 - 648y^4 + 192y^3 \end{aligned}$$

$$\begin{aligned} 4. & -8g^4(-g^3 + g^2)(-4g^4 - 8g^3) \\ & = -32g^{11} - 32g^{10} + 64g^9 \end{aligned}$$

$$\begin{aligned} 5. & (-5g^4 + 6g^3 - 5g^2)(-5g^2 + 9g + 5)(6g^2 + 7g + 9) \\ & = 150g^8 - 275g^7 + 24g^6 - 387g^5 + 231g^4 - 310g^3 - 225g^2 \end{aligned}$$