

Multiplication de Trois Monômes ou Polynômes Aléatoires (D)

Simplifiez chaque expression.

1. $(-9t - 7)(-4t^2 - 5t)(-5t^3 + 3t^2)$

2. $(2y^5 - y^4)(-6y^2 - 8y)(5y^5 - y^4)$

3. $(-5y^4 - 8y^3)(-3y^4 - y^3 - 3y^2)(9y^5 - 2y^4)$

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

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

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(D) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (-9t - 7)(-4t^2 - 5t)(-5t^3 + 3t^2) \\ & = -180t^6 - 257t^5 + 44t^4 + 105t^3 \end{aligned}$$

$$\begin{aligned} 2. & (2y^5 - y^4)(-6y^2 - 8y)(5y^5 - y^4) \\ & = -60y^{12} - 38y^{11} + 50y^{10} - 8y^9 \end{aligned}$$

$$\begin{aligned} 3. & (-5y^4 - 8y^3)(-3y^4 - y^3 - 3y^2)(9y^5 - 2y^4) \\ & = 135y^{13} + 231y^{12} + 149y^{11} + 170y^{10} - 48y^9 \end{aligned}$$

$$\begin{aligned} 4. & (2d + 9)(9d^4 - 3d^3)(-3d^2 + 2d - 6) \\ & = -54d^7 - 189d^6 + 123d^5 - 504d^4 + 162d^3 \end{aligned}$$

$$\begin{aligned} 5. & 2d^4(6d^2 - 2d - 9)(4d^5 + 8d^4 + 4d^3) \\ & = 48d^{11} + 80d^{10} - 56d^9 - 160d^8 - 72d^7 \end{aligned}$$