

Multiplicar Tres Polinomios (I)

Simplifique cada expresión.

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

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

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

4. $(7a^4 + 9a^3 - 6a^2)(-5a^5 + 7a^4 - 8a^3)(-3a^4 - 6a^3 + 9a^2)$

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

Multiplicar Tres Polinomios (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (6v^4 - 5v^3 + 4v^2)(5v^5 - 2v^4 - v^3)(-7v^2 + 4v + 2) \\ & = -210v^{11} + 379v^{10} - 256v^9 + 43v^8 + 64v^7 - 22v^6 - 8v^5 \end{aligned}$$

$$\begin{aligned} 2. & (6w^5 - 6w^4 + 5w^3)(6w^4 - 3w^3 - 7w^2)(6w^3 + 6w^2 - 2w) \\ & = 216w^{12} - 108w^{11} - 360w^{10} + 306w^9 - 60w^8 - 264w^7 + 70w^6 \end{aligned}$$

$$\begin{aligned} 3. & (2x^4 - 6x^3 + x^2)(3x^5 + 6x^4 + 9x^3)(2x^5 + 3x^4 + 2x^3) \\ & = 12x^{14} + 6x^{13} - 36x^{12} - 153x^{11} - 156x^{10} - 69x^9 + 18x^8 \end{aligned}$$

$$\begin{aligned} 4. & (7a^4 + 9a^3 - 6a^2)(-5a^5 + 7a^4 - 8a^3)(-3a^4 - 6a^3 + 9a^2) \\ & = 105a^{13} + 198a^{12} - 450a^{11} + 156a^{10} + 873a^9 - 1314a^8 + 432a^7 \end{aligned}$$

$$\begin{aligned} 5. & (-2d^4 + 2d^3 - d^2)(-7d^3 + 4d^2 - 8d)(3d^2 - 6d - 6) \\ & = 42d^9 - 150d^8 + 141d^7 - 114d^6 - 42d^5 + 72d^4 - 48d^3 \end{aligned}$$