

Multiplicar Tres Polinomios (A)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (A) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-7b^4 - 4b^3)(-b^4 + 5b^3 - 5b^2)(-2b^4 + 3b^3 + 4b^2) \\ & = -14b^{12} + 83b^{11} - 95b^{10} - 119b^9 + 120b^8 + 80b^7 \end{aligned}$$

$$\begin{aligned} 2. & (-8y^5 - 7y^4)(9y^5 - 3y^4 - 5y^3)(2y^5 - y^4 + 6y^3) \\ & = -144y^{15} - 6y^{14} - 271y^{13} - 225y^{12} + 331y^{11} + 210y^{10} \end{aligned}$$

$$\begin{aligned} 3. & (3m^5 - 4m^4)(-5m^3 + 7m^2 + 9m)(-3m^2 + 6m - 6) \\ & = 45m^{10} - 213m^9 + 339m^8 - 144m^7 - 210m^6 + 216m^5 \end{aligned}$$

$$\begin{aligned} 4. & (-9x^5 - 9x^4)(7x^2 + 6x + 2)(9x^5 + 6x^4 + 7x^3) \\ & = -567x^{12} - 1431x^{11} - 1791x^{10} - 1413x^9 - 612x^8 - 126x^7 \end{aligned}$$

$$\begin{aligned} 5. & (5q^3 + 4q^2)(-6q^5 + 8q^4 - 9q^3)(6q^4 + 8q^3 + 9q^2) \\ & = -180q^{12} - 144q^{11} - 220q^{10} - 176q^9 - 405q^8 - 324q^7 \end{aligned}$$

Multiplicar Tres Polinomios (B)

Simplifique cada expresión.

1. $(-6v^2 - 6v)(6v^5 - 2v^4 + 9v^3)(-2v^5 + 6v^4 - 9v^3)$

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

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

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

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

Multiplicar Tres Polinomios (B) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-6v^2 - 6v)(6v^5 - 2v^4 + 9v^3)(-2v^5 + 6v^4 - 9v^3) \\ & = 72v^{12} - 168v^{11} + 264v^{10} + 72v^9 + 54v^8 + 486v^7 \end{aligned}$$

$$\begin{aligned} 2. & (3s^2 + 7s)(-9s^5 + 7s^4 - 7s^3)(8s^3 - 4s^2 + 9s) \\ & = -216s^{10} - 228s^9 + 149s^8 - 882s^7 + 448s^6 - 441s^5 \end{aligned}$$

$$\begin{aligned} 3. & (5w^5 - 7w^4)(w^4 + 3w^3 + 8w^2)(-2w^5 - w^4 - 7w^3) \\ & = -10w^{14} - 21w^{13} - 81w^{12} + 37w^{11} - 77w^{10} + 392w^9 \end{aligned}$$

$$\begin{aligned} 4. & (-5c^4 - 2c^3)(-5c^4 + 6c^3 - 3c^2)(5c^3 + 2c^2 - 5c) \\ & = 125c^{11} - 50c^{10} - 150c^9 + 136c^8 - 3c^7 - 30c^6 \end{aligned}$$

$$\begin{aligned} 5. & (-9q^3 + 5q^2)(-3q^5 - 3q^4 - 3q^3)(8q^3 - q^2 - 6q) \\ & = 216q^{11} + 69q^{10} - 78q^9 - 204q^8 - 57q^7 + 90q^6 \end{aligned}$$

Multiplicar Tres Polinomios (C)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (C) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-5d^3 - d^2)(4d^5 - 5d^4 - 5d^3)(8d^5 + 8d^4 - 5d^3) \\ & = -160d^{13} + 8d^{12} + 508d^{11} + 175d^{10} - 110d^9 - 25d^8 \end{aligned}$$

$$\begin{aligned} 2. & (7k^4 + 9k^3)(7k^5 + 6k^4 + 2k^3)(4k^3 + 7k^2 - 7k) \\ & = 196k^{12} + 763k^{11} + 664k^{10} - 187k^9 - 350k^8 - 126k^7 \end{aligned}$$

$$\begin{aligned} 3. & (-s^4 + s^3)(4s^2 + 3s - 1)(-3s^5 + s^4 + 6s^3) \\ & = 12s^{11} - 7s^{10} - 35s^9 + 13s^8 + 23s^7 - 6s^6 \end{aligned}$$

$$\begin{aligned} 4. & (7d^5 + d^4)(6d^2 + 3d + 9)(6d^3 - 3d^2 + 3d) \\ & = 252d^{10} + 36d^9 + 441d^8 - 63d^7 + 171d^6 + 27d^5 \end{aligned}$$

$$\begin{aligned} 5. & (8b - 6)(3b^4 - 9b^3 + 6b^2)(9b^2 + 3b + 6) \\ & = 216b^7 - 738b^6 + 792b^5 - 558b^4 + 504b^3 - 216b^2 \end{aligned}$$

Multiplicar Tres Polinomios (D)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (D) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (5p^3 + 9p^2)(3p^2 - p + 4)(2p^5 - 2p^4 + 3p^3) \\ & = 30p^{10} + 14p^9 + 23p^8 + 116p^7 - 39p^6 + 108p^5 \end{aligned}$$

$$\begin{aligned} 2. & (3w^3 + w^2)(-8w^4 + 6w^3 - 8w^2)(-5w^3 - 5w^2 - 8w) \\ & = 120w^{10} + 70w^9 + 232w^8 + 50w^7 + 184w^6 + 64w^5 \end{aligned}$$

$$\begin{aligned} 3. & (-8x^5 + 5x^4)(x^2 - 5x + 7)(-5x^4 - 3x^3 + 7x^2) \\ & = 40x^{11} - 201x^{10} + 214x^9 + 383x^8 - 672x^7 + 245x^6 \end{aligned}$$

$$\begin{aligned} 4. & (-2t^4 + 4t^3)(-4t^5 + 5t^4 - 3t^3)(-7t^4 + t^3 + 8t^2) \\ & = -56t^{13} + 190t^{12} - 144t^{11} - 98t^{10} + 196t^9 - 96t^8 \end{aligned}$$

$$\begin{aligned} 5. & (8t^4 - 3t^3)(-9t^3 + 2t^2 - 5t)(-7t^4 - 3t^3 + 8t^2) \\ & = 504t^{11} - 85t^{10} - 383t^9 + 377t^8 - 413t^7 + 120t^6 \end{aligned}$$

Multiplicar Tres Polinomios (E)

Simplifique cada expresión.

1. $(-9b^2 - 5b)(3b^3 + 2b^2 - 8b)(9b^4 - 2b^3 - 3b^2)$

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

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

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

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

Multiplicar Tres Polinomios (E) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-9b^2 - 5b)(3b^3 + 2b^2 - 8b)(9b^4 - 2b^3 - 3b^2) \\ & = -243b^9 - 243b^8 + 705b^7 + 335b^6 - 266b^5 - 120b^4 \end{aligned}$$

$$\begin{aligned} 2. & (-5s^2 + 2s)(4s^3 - 4s^2 - 2s)(7s^5 - 2s^4 - 5s^3) \\ & = -140s^{10} + 236s^9 + 58s^8 - 172s^7 - 2s^6 + 20s^5 \end{aligned}$$

$$\begin{aligned} 3. & (-3v^3 + 6v^2)(-v^5 + 9v^4 - 2v^3)(2v^2 - 3v + 7) \\ & = 6v^{10} - 75v^9 + 240v^8 - 435v^7 + 456v^6 - 84v^5 \end{aligned}$$

$$\begin{aligned} 4. & (-8m + 8)(-4m^2 - 7m - 4)(-7m^3 - 4m^2 + 5m) \\ & = -224m^6 - 296m^5 + 232m^4 + 440m^3 + 8m^2 - 160m \end{aligned}$$

$$\begin{aligned} 5. & (-5f^4 - 5f^3)(-f^5 - 8f^4 - 6f^3)(-9f^4 + 4f^3 + 4f^2) \\ & = -45f^{13} - 385f^{12} - 430f^{11} + 190f^{10} + 400f^9 + 120f^8 \end{aligned}$$

Multiplicar Tres Polinomios (F)

Simplifique cada expresión.

1. $(9s^2 - 5s)(4s^4 + s^3 + 6s^2)(6s^4 - 5s^3 + 8s^2)$

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

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

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

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

Multiplicar Tres Polinomios (F) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (9s^2 - 5s)(4s^4 + s^3 + 6s^2)(6s^4 - 5s^3 + 8s^2) \\ & = 216s^{10} - 246s^9 + 637s^8 - 513s^7 + 542s^6 - 240s^5 \end{aligned}$$

$$\begin{aligned} 2. & (8m^4 + m^3)(3m^2 - 4m + 1)(3m^5 - 4m^4 + 2m^3) \\ & = 72m^{11} - 183m^{10} + 176m^9 - 71m^8 + 4m^7 + 2m^6 \end{aligned}$$

$$\begin{aligned} 3. & (8d^5 + 3d^4)(-7d^4 - 5d^3 + 4d^2)(2d^2 - 6d - 7) \\ & = -112d^{11} + 214d^{10} + 792d^9 + 349d^8 - 191d^7 - 84d^6 \end{aligned}$$

$$\begin{aligned} 4. & (3y^3 - 2y^2)(-2y^2 + 3y - 6)(9y^3 - 3y^2 - 2y) \\ & = -54y^8 + 135y^7 - 243y^6 + 154y^5 + 12y^4 - 24y^3 \end{aligned}$$

$$\begin{aligned} 5. & (h^2 + 3h)(5h^3 - 4h^2 + 6h)(-7h^3 + 9h^2 + 8h) \\ & = -35h^8 - 32h^7 + 181h^6 - 92h^5 + 114h^4 + 144h^3 \end{aligned}$$

Multiplicar Tres Polinomios (G)

Simplifique cada expresión.

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

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

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

4. $(3p^3 - 2p^2)(3p^2 - 9p - 4)(-7p^3 - 4p^2 + 2p)$

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

Multiplicar Tres Polinomios (G) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (2v^3 + 3v^2)(7v^4 - 9v^3 - 3v^2)(-3v^2 + 9v + 7) \\ & = -42v^9 + 117v^8 + 224v^7 - 249v^6 - 312v^5 - 63v^4 \end{aligned}$$

$$\begin{aligned} 2. & (-8d + 8)(d^5 - 6d^4 + 5d^3)(-3d^4 + 6d^3 - d^2) \\ & = 24d^{10} - 216d^9 + 608d^8 - 704d^7 + 328d^6 - 40d^5 \end{aligned}$$

$$\begin{aligned} 3. & (6a^5 - 6a^4)(-6a^3 + 8a^2 - 4a)(-3a^5 - 3a^4 + 9a^3) \\ & = 108a^{13} - 144a^{12} - 360a^{11} + 900a^{10} - 720a^9 + 216a^8 \end{aligned}$$

$$\begin{aligned} 4. & (3p^3 - 2p^2)(3p^2 - 9p - 4)(-7p^3 - 4p^2 + 2p) \\ & = -63p^8 + 195p^7 + 108p^6 - 146p^5 - 20p^4 + 16p^3 \end{aligned}$$

$$\begin{aligned} 5. & (6y^5 - 5y^4)(4y^3 + y^2 - 2y)(6y^5 - 8y^4 + 3y^3) \\ & = 144y^{13} - 276y^{12} + 82y^{11} + 154y^{10} - 131y^9 + 30y^8 \end{aligned}$$

Multiplicar Tres Polinomios (H)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (H) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (m^5 - 2m^4)(-9m^2 - 8m - 5)(-6m^4 + 3m^3 - 9m^2) \\ & = 54m^{11} - 87m^{10} + 45m^9 - 117m^8 - 69m^7 - 90m^6 \end{aligned}$$

$$\begin{aligned} 2. & (-2q^3 - 9q^2)(8q^5 + q^4 + 4q^3)(6q^3 + 9q^2 + 7q) \\ & = -96q^{11} - 588q^{10} - 880q^9 - 887q^8 - 443q^7 - 252q^6 \end{aligned}$$

$$\begin{aligned} 3. & (3b^4 - b^3)(-5b^2 - 8b - 9)(-4b^4 - 9b^3 - 6b^2) \\ & = 60b^{10} + 211b^9 + 337b^8 + 249b^7 + 33b^6 - 54b^5 \end{aligned}$$

$$\begin{aligned} 4. & (-5f^2 + 5f)(8f^3 + 8f^2 + 9f)(6f^3 + 9f^2 + 3f) \\ & = -240f^8 - 360f^7 - 150f^6 + 225f^5 + 390f^4 + 135f^3 \end{aligned}$$

$$\begin{aligned} 5. & (-8w^2 - 3w)(2w^2 - 2w + 3)(-7w^4 - 9w^3 - 2w^2) \\ & = 112w^8 + 74w^7 + 68w^6 + 205w^5 + 117w^4 + 18w^3 \end{aligned}$$

Multiplicar Tres Polinomios (I)

Simplifique cada expresión.

1. $(-8h^4 - h^3)(3h^5 - 4h^4 - 6h^3)(8h^4 - 4h^3 - 9h^2)$

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

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

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

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

Multiplicar Tres Polinomios (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-8h^4 - h^3)(3h^5 - 4h^4 - 6h^3)(8h^4 - 4h^3 - 9h^2) \\ & = -192h^{13} + 328h^{12} + 516h^{11} - 421h^{10} - 492h^9 - 54h^8 \end{aligned}$$

$$\begin{aligned} 2. & (-9d^4 - d^3)(-7d^5 - 5d^4 - 7d^3)(-5d^5 - 6d^4 + d^3) \\ & = -315d^{14} - 638d^{13} - 589d^{12} - 391d^{11} + 26d^{10} + 7d^9 \end{aligned}$$

$$\begin{aligned} 3. & (9k^3 + 3k^2)(-7k^2 + 5k - 9)(-8k^3 - 4k^2 + 2k) \\ & = 504k^8 + 60k^7 + 306k^6 + 528k^5 - 24k^4 - 54k^3 \end{aligned}$$

$$\begin{aligned} 4. & (w^2 - 5w)(7w^2 - 3w - 6)(-8w^4 + 5w^3 + 3w^2) \\ & = -56w^8 + 339w^7 - 241w^6 - 309w^5 + 177w^4 + 90w^3 \end{aligned}$$

$$\begin{aligned} 5. & (6h^5 + 8h^4)(5h^4 - 2h^3 - 2h^2)(5h^3 + 6h^2 - 5h) \\ & = 150h^{12} + 320h^{11} - 122h^{10} - 388h^9 + 44h^8 + 80h^7 \end{aligned}$$

Multiplicar Tres Polinomios (J)

Simplifique cada expresión.

1. $(9t + 1)(-5t^3 + 6t^2 + 9t)(3t^3 + 7t^2 + 6t)$

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

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

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

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

Multiplicar Tres Polinomios (J) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (9t + 1)(-5t^3 + 6t^2 + 9t)(3t^3 + 7t^2 + 6t) \\ & = -135t^7 - 168t^6 + 334t^5 + 930t^4 + 585t^3 + 54t^2 \end{aligned}$$

$$\begin{aligned} 2. & (-5g - 3)(-9g^5 - 5g^4 - 5g^3)(-2g^4 + 4g^3 + 9g^2) \\ & = -90g^{10} + 76g^9 + 533g^8 + 598g^7 + 420g^6 + 135g^5 \end{aligned}$$

$$\begin{aligned} 3. & (5h + 5)(6h^3 - 6h^2 + h)(9h^2 - 8h - 3) \\ & = 270h^6 - 240h^5 - 315h^4 + 245h^3 + 35h^2 - 15h \end{aligned}$$

$$\begin{aligned} 4. & (5h^2 + 9h)(-9h^4 - h^3 - 9h^2)(6h^3 - 6h^2 + 8h) \\ & = -270h^9 - 246h^8 - 168h^7 - 850h^6 + 54h^5 - 648h^4 \end{aligned}$$

$$\begin{aligned} 5. & (7m - 7)(-7m^3 + 6m^2 + 5m)(-2m^3 - 9m^2 - 9m) \\ & = 98m^7 + 259m^6 - 364m^5 - 686m^4 + 378m^3 + 315m^2 \end{aligned}$$