

Multiplicar Tres Polinomios (A)

Simplifique cada expresión.

1. $(-2h^4 + 6h^3)(-7h^3 - 4h^2)(2h^5 + 8h^4 - 4h^3)$

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

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

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

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

Multiplicar Tres Polinomios (A) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-2h^4 + 6h^3)(-7h^3 - 4h^2)(2h^5 + 8h^4 - 4h^3) \\ & = 28h^{12} + 44h^{11} - 376h^{10} - 56h^9 + 96h^8 \end{aligned}$$

$$\begin{aligned} 2. & (g^2 - 6g)(-4g^4 - 7g^3)(3g^3 + 5g^2 + 4g) \\ & = -12g^9 + 31g^8 + 195g^7 + 278g^6 + 168g^5 \end{aligned}$$

$$\begin{aligned} 3. & (-3s^4 - 5s^3)(-3s^5 + 5s^4)(3s^5 + 5s^4 + 9s^3) \\ & = 27s^{14} + 45s^{13} + 6s^{12} - 125s^{11} - 225s^{10} \end{aligned}$$

$$\begin{aligned} 4. & (-t^3 - 5t^2)(-3t + 6)(8t^5 - t^4 + t^3) \\ & = 24t^9 + 69t^8 - 246t^7 + 39t^6 - 30t^5 \end{aligned}$$

$$\begin{aligned} 5. & (3g + 3)(-6g^2 + 3g)(9g^5 + 3g^4 + g^3) \\ & = -162g^8 - 135g^7 + 36g^6 + 18g^5 + 9g^4 \end{aligned}$$

Multiplicar Tres Polinomios (B)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (B) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (-5q^4 + 5q^3)(-7q^2 - 4q)(-2q^5 + 2q^4 + 9q^3) \\ & = -70q^{11} + 100q^{10} + 325q^9 - 175q^8 - 180q^7 \end{aligned}$$

$$\begin{aligned} 2. & (7z + 4)(6z^4 + 3z^3)(-5z^2 - 3z - 4) \\ & = -210z^7 - 351z^6 - 363z^5 - 216z^4 - 48z^3 \end{aligned}$$

$$\begin{aligned} 3. & (-4a^3 + 3a^2)(6a^4 - 2a^3)(9a^5 + 3a^4 - 7a^3) \\ & = -216a^{12} + 162a^{11} + 192a^{10} - 200a^9 + 42a^8 \end{aligned}$$

$$\begin{aligned} 4. & (-2g + 3)(7g + 6)(-8g^5 + 3g^4 - 3g^3) \\ & = 112g^7 - 114g^6 - 75g^5 + 27g^4 - 54g^3 \end{aligned}$$

$$\begin{aligned} 5. & (3g^4 + 3g^3)(-2g^5 + 8g^4)(9g^4 + 9g^3 + 2g^2) \\ & = -54g^{13} + 108g^{12} + 366g^{11} + 252g^{10} + 48g^9 \end{aligned}$$

Multiplicar Tres Polinomios (C)

Simplifique cada expresión.

1. $(2a^4 - a^3)(3a^3 + 8a^2)(6a^2 - 8a - 1)$

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

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

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

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

Multiplicar Tres Polinomios (C) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (2a^4 - a^3)(3a^3 + 8a^2)(6a^2 - 8a - 1) \\ & = 36a^9 + 30a^8 - 158a^7 + 51a^6 + 8a^5 \end{aligned}$$

$$\begin{aligned} 2. & (5c^2 - c)(8c^5 - 4c^4)(9c^4 + 9c^3 - 3c^2) \\ & = 360c^{11} + 108c^{10} - 336c^9 + 120c^8 - 12c^7 \end{aligned}$$

$$\begin{aligned} 3. & (-9d^5 + 9d^4)(8d^4 + 4d^3)(-8d^5 + 5d^4 - 3d^3) \\ & = 576d^{14} - 648d^{13} + 108d^{12} + 72d^{11} - 108d^{10} \end{aligned}$$

$$\begin{aligned} 4. & (3f^3 - 7f^2)(-8f^5 - 9f^4)(-2f^5 - 6f^4 - 5f^3) \\ & = 48f^{13} + 86f^{12} - 180f^{11} - 523f^{10} - 315f^9 \end{aligned}$$

$$\begin{aligned} 5. & (f^3 - 6f^2)(-5f^5 + f^4)(8f^2 + 7f - 7) \\ & = -40f^{10} + 213f^9 + 204f^8 - 259f^7 + 42f^6 \end{aligned}$$

Multiplicar Tres Polinomios (D)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (D) Respuestas

Simplifique cada expresión.

- $$\begin{aligned} 1. & (-8g + 1)(-4g^2 - 6g)(9g^4 - g^3 + 6g^2) \\ & = 288g^7 + 364g^6 + 94g^5 + 270g^4 - 36g^3 \end{aligned}$$
- $$\begin{aligned} 2. & (-3w^2 - 8w)(4w^5 - 9w^4)(9w^3 - 5w^2 - 4w) \\ & = -108w^{10} + 15w^9 + 721w^8 - 340w^7 - 288w^6 \end{aligned}$$
- $$\begin{aligned} 3. & (7x^2 - 5x)(-5x + 9)(2x^3 - 3x^2 - 9x) \\ & = -70x^6 + 281x^5 - 39x^4 - 657x^3 + 405x^2 \end{aligned}$$
- $$\begin{aligned} 4. & (4v^5 - 9v^4)(-5v^2 - v)(-5v^2 + 5v - 8) \\ & = 100v^9 - 305v^8 + 320v^7 - 283v^6 - 72v^5 \end{aligned}$$
- $$\begin{aligned} 5. & (8t^5 - 9t^4)(6t^5 + 8t^4)(-6t^4 + 8t^3 + 6t^2) \\ & = -288t^{14} + 324t^{13} + 800t^{12} - 516t^{11} - 432t^{10} \end{aligned}$$

Multiplicar Tres Polinomios (E)

Simplifique cada expresión.

1. $(8w^4 - 7w^3)(-3w + 2)(6w^3 - 2w^2 + 4w)$

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

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

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

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

Multiplicar Tres Polinomios (E) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (8w^4 - 7w^3)(-3w + 2)(6w^3 - 2w^2 + 4w) \\ & = -144w^8 + 270w^7 - 254w^6 + 176w^5 - 56w^4 \end{aligned}$$

$$\begin{aligned} 2. & (-5b^2 + 9b)(-6b^3 - b^2)(-9b^5 + 2b^4 + 5b^3) \\ & = -270b^{10} + 501b^9 + 133b^8 - 263b^7 - 45b^6 \end{aligned}$$

$$\begin{aligned} 3. & (-5b^3 - 4b^2)(-7b^4 + 7b^3)(-b^5 + 5b^4 + 6b^3) \\ & = -35b^{12} + 182b^{11} + 203b^{10} - 182b^9 - 168b^8 \end{aligned}$$

$$\begin{aligned} 4. & (3q^5 - 9q^4)(5q^3 - 8q^2)(5q^4 + q^3 - q^2) \\ & = 75q^{12} - 330q^{11} + 276q^{10} + 141q^9 - 72q^8 \end{aligned}$$

$$\begin{aligned} 5. & (8d^3 + 5d^2)(6d + 3)(6d^3 - 2d^2 + 5d) \\ & = 288d^7 + 228d^6 + 222d^5 + 240d^4 + 75d^3 \end{aligned}$$

Multiplicar Tres Polinomios (F)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (F) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (5y^5 + 9y^4)(-8y^3 + 2y^2)(9y^4 - y^3 - 9y^2) \\ & = -360y^{12} - 518y^{11} + 584y^{10} + 540y^9 - 162y^8 \end{aligned}$$

$$\begin{aligned} 2. & (z - 2)(-4z - 8)(-4z^5 - 6z^4 - z^3) \\ & = 16z^7 + 24z^6 - 60z^5 - 96z^4 - 16z^3 \end{aligned}$$

$$\begin{aligned} 3. & (-8b^4 - 7b^3)(-8b^2 - 8b)(2b^3 + 3b^2 - 3b) \\ & = 128b^9 + 432b^8 + 280b^7 - 192b^6 - 168b^5 \end{aligned}$$

$$\begin{aligned} 4. & (4x^3 - 6x^2)(5x^3 + 4x^2)(8x^4 + x^3 + 9x^2) \\ & = 160x^{10} - 92x^9 - 26x^8 - 150x^7 - 216x^6 \end{aligned}$$

$$\begin{aligned} 5. & (g^3 + 7g^2)(-7g^5 - 6g^4)(3g^5 + 5g^4 + 6g^3) \\ & = -21g^{13} - 200g^{12} - 443g^{11} - 540g^{10} - 252g^9 \end{aligned}$$

Multiplicar Tres Polinomios (G)

Simplifique cada expresión.

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

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

3. $(-7h^2 + 8h)(-h^3 + 9h^2)(-h^2 + 5h + 1)$

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

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

Multiplicar Tres Polinomios (G) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (6s - 6)(2s^4 + 2s^3)(-6s^3 - s^2 - 6s) \\ & = -72s^8 - 12s^7 + 12s^5 + 72s^4 \end{aligned}$$

$$\begin{aligned} 2. & (4p^5 + 9p^4)(-4p^3 + 3p^2)(3p^4 - 5p^3 - p^2) \\ & = -48p^{12} + 8p^{11} + 217p^{10} - 111p^9 - 27p^8 \end{aligned}$$

$$\begin{aligned} 3. & (-7h^2 + 8h)(-h^3 + 9h^2)(-h^2 + 5h + 1) \\ & = -7h^7 + 106h^6 - 420h^5 + 289h^4 + 72h^3 \end{aligned}$$

$$\begin{aligned} 4. & (7c + 4)(-8c + 5)(8c^3 + 7c^2 - 2c) \\ & = -448c^5 - 368c^4 + 293c^3 + 134c^2 - 40c \end{aligned}$$

$$\begin{aligned} 5. & (5r^5 - 5r^4)(2r^2 + 5r)(6r^4 + 6r^3 + 2r^2) \\ & = 60r^{11} + 150r^{10} - 40r^9 - 120r^8 - 50r^7 \end{aligned}$$

Multiplicar Tres Polinomios (H)

Simplifique cada expresión.

1. $(9m + 7)(-m^5 + 4m^4)(7m^5 - 3m^4 + 6m^3)$

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

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

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

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

Multiplicar Tres Polinomios (H) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (9m + 7)(-m^5 + 4m^4)(7m^5 - 3m^4 + 6m^3) \\ & = -63m^{11} + 230m^{10} + 55m^9 + 90m^8 + 168m^7 \end{aligned}$$

$$\begin{aligned} 2. & (4b^4 + 7b^3)(6b^3 - 6b^2)(8b^5 - 7b^4 + 3b^3) \\ & = 192b^{12} - 24b^{11} - 390b^{10} + 348b^9 - 126b^8 \end{aligned}$$

$$\begin{aligned} 3. & (-6x + 8)(-4x^5 + 8x^4)(3x^3 - 9x^2 + x) \\ & = 72x^9 - 456x^8 + 936x^7 - 656x^6 + 64x^5 \end{aligned}$$

$$\begin{aligned} 4. & (4m^5 + 4m^4)(8m^4 + 5m^3)(m^2 + 7m - 1) \\ & = 32m^{11} + 276m^{10} + 352m^9 + 88m^8 - 20m^7 \end{aligned}$$

$$\begin{aligned} 5. & (4v - 4)(-5v^4 - 8v^3)(6v^2 + 9v + 9) \\ & = -120v^7 - 252v^6 - 96v^5 + 180v^4 + 288v^3 \end{aligned}$$

Multiplicar Tres Polinomios (I)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (7p^4 - 6p^3)(-3p^2 + 2p)(-2p^2 + 3p + 5) \\ & = 42p^8 - 127p^7 + 15p^6 + 124p^5 - 60p^4 \end{aligned}$$

$$\begin{aligned} 2. & (9s^2 + 3s)(9s^2 + 2s)(-6s^3 + 4s^2 - 9s) \\ & = -486s^7 + 54s^6 - 585s^5 - 381s^4 - 54s^3 \end{aligned}$$

$$\begin{aligned} 3. & (-5m^3 + 3m^2)(7m - 7)(-9m^5 - 2m^4 - 6m^3) \\ & = 315m^9 - 434m^8 + 287m^7 - 294m^6 + 126m^5 \end{aligned}$$

$$\begin{aligned} 4. & (7t^2 - 8t)(9t + 8)(-6t^3 + 8t^2 - 7t) \\ & = -378t^6 + 600t^5 - 185t^4 - 400t^3 + 448t^2 \end{aligned}$$

$$\begin{aligned} 5. & (-5b^3 - 7b^2)(4b^4 + 8b^3)(-8b^4 + 9b^3 + 9b^2) \\ & = 160b^{11} + 364b^{10} - 344b^9 - 1116b^8 - 504b^7 \end{aligned}$$

Multiplicar Tres Polinomios (J)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (J) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & (2k^5 + 3k^4)(-2k - 2)(2k^2 - 5k - 5) \\ & = -8k^8 + 58k^6 + 80k^5 + 30k^4 \end{aligned}$$

$$\begin{aligned} 2. & (2s^3 - 3s^2)(9s - 8)(6s^5 + 4s^4 + 8s^3) \\ & = 108s^9 - 186s^8 + 116s^7 - 248s^6 + 192s^5 \end{aligned}$$

$$\begin{aligned} 3. & (4v^2 + 4v)(-7v^5 + v^4)(2v^4 + 9v^3 - 2v^2) \\ & = -56v^{11} - 300v^{10} - 152v^9 + 84v^8 - 8v^7 \end{aligned}$$

$$\begin{aligned} 4. & (-a^5 + 3a^4)(-8a^4 + 8a^3)(5a^2 - 9a - 1) \\ & = 40a^{11} - 232a^{10} + 400a^9 - 184a^8 - 24a^7 \end{aligned}$$

$$\begin{aligned} 5. & (-5d^5 - 2d^4)(-5d + 4)(5d^3 - d^2 - 2d) \\ & = 125d^9 - 75d^8 - 80d^7 + 28d^6 + 16d^5 \end{aligned}$$