

Multiplicar Tres Polinomios (A)

Simplifique cada expresión.

$$1. (-8p^4 + 7p^3 + 2p^2)(9p^4 - 5p^3)(-4p^5 - 4p^4)$$

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

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

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

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

Multiplicar Tres Polinomios (A) Respuestas

Simplifique cada expresión.

$$1. (-8p^4 + 7p^3 + 2p^2)(9p^4 - 5p^3)(-4p^5 - 4p^4)$$
$$= 288p^{13} - 124p^{12} - 344p^{11} + 108p^{10} + 40p^9$$

$$2. (n^5 + 4n^4 + 3n^3)(n^4 + 9n^3)(-9n^3 + n^2 - 7n)$$
$$= -9n^{12} - 116n^{11} - 345n^{10} - 295n^9 - 246n^8 - 189n^7$$

$$3. (-4y^3 + y^2 - 6y)(-5y^4 + 5y^3 + 4y^2)(-y^5 - y^4 + 2y^3)$$
$$= -20y^{12} + 5y^{11} + 46y^{10} - 43y^9 + 88y^8 - 28y^7 - 48y^6$$

$$4. (3v^3 - 3v^2)(-8v^4 - 4v^3)(5v^3 - 4v^2 + 8v)$$
$$= -120v^{10} + 156v^9 - 180v^8 + 48v^7 + 96v^6$$

$$5. (3v^5 - 6v^4)(-5v^2 - 6v)(-2v^2 - 7v - 2)$$
$$= 30v^9 + 81v^8 - 126v^7 - 276v^6 - 72v^5$$

Multiplicar Tres Polinomios (B)

Simplifique cada expresión.

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

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

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

$$4. 3n^5(6n^2 - 4n)(-5n^2 - 2n)$$

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

Multiplicar Tres Polinomios (B) Respuestas

Simplifique cada expresión.

$$1. (2s^3 - s^2)(4s^2 + 2s + 4)(s^4 - 9s^3 + s^2)$$
$$= 8s^9 - 72s^8 + 14s^7 - 58s^6 + 42s^5 - 4s^4$$

$$2. -z(6z^4 - 9z^3 + z^2)(-2z^2 - 5z - 1)$$
$$= 12z^7 + 12z^6 - 37z^5 - 4z^4 + 1z^3$$

$$3. 7g^3(4g^2 - 4g + 3)(-9g + 2)$$
$$= -252g^6 + 308g^5 - 245g^4 + 42g^3$$

$$4. 3n^5(6n^2 - 4n)(-5n^2 - 2n)$$
$$= -90n^9 + 24n^8 + 24n^7$$

$$5. 7p^2(-7p^4 + p^3)(-4p^4 - 6p^3)$$
$$= 196p^{10} + 266p^9 - 42p^8$$

Multiplicar Tres Polinomios (C)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (C) Respuestas

Simplifique cada expresión.

$$1. (-3q^2 - 6q + 2)(7q + 9)(-q^2 + 7q)$$
$$= 21q^5 - 78q^4 - 443q^3 - 298q^2 + 126q$$

$$2. 8b(6b^4 + 4b^3 + 7b^2)(5b^2 + 9b - 5)$$
$$= 240b^7 + 592b^6 + 328b^5 + 344b^4 - 280b^3$$

$$3. (-t^5 - 2t^4 + 5t^3)(-8t^3 - 7t^2)(-9t^3 - 5t^2)$$
$$= -72t^{11} - 247t^{10} + 119t^9 + 445t^8 + 175t^7$$

$$4. 7c(-4c^5 + 6c^4 - 3c^3)(2c^2 - 5c - 2)$$
$$= -56c^8 + 224c^7 - 196c^6 + 21c^5 + 42c^4$$

$$5. (-5x^3 - 3x^2)(2x^3 + 3x^2 + 9x)(-7x^5 + 6x^4)$$
$$= 70x^{11} + 87x^{10} + 252x^9 - 135x^8 - 162x^7$$

Multiplicar Tres Polinomios (D)

Simplifique cada expresión.

$$1. (2a^4 - a^3 + 9a^2)(-8a^5 - 7a^4)(8a^2 + 7a - 7)$$

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

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

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

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

Multiplicar Tres Polinomios (D) Respuestas

Simplifique cada expresión.

$$1. (2a^4 - a^3 + 9a^2)(-8a^5 - 7a^4)(8a^2 + 7a - 7)$$
$$= -128a^{11} - 160a^{10} - 450a^9 - 917a^8 + 14a^7 + 441a^6$$

$$2. (6c^2 + 9c - 8)(8c^3 - 3c^2)(-9c - 1)$$
$$= -432c^6 - 534c^5 + 765c^4 - 125c^3 - 24c^2$$

$$3. -4c^2(5c^3 + 8c^2 + 4c)(-6c^3 + 3c^2)$$
$$= 120c^8 + 132c^7 - 48c^5$$

$$4. (-8r^4 - 7r^3)(2r^4 - 8r^3 + 3r^2)(-4r^2 - 3r)$$
$$= 64r^{10} - 152r^9 - 278r^8 - 12r^7 + 63r^6$$

$$5. (8g^4 + 3g^3 - 8g^2)(2g^3 + 8g^2 + 7g)(3g^3 - 9g^2 - 3g)$$
$$= 48g^{10} + 66g^9 - 486g^8 - 915g^7 + 27g^6 + 633g^5 + 168g^4$$

Multiplicar Tres Polinomios (E)

Simplifique cada expresión.

$$1. \ -8y^4(-6y^5 - 3y^4 - 7y^3)(5y + 5)$$

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

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

$$4. \ (-3g^4 - g^3)(8g - 6)(9g^5 - 6g^4 + 3g^3)$$

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

Multiplicar Tres Polinomios (E) Respuestas

Simplifique cada expresión.

$$1. \ -8y^4(-6y^5 - 3y^4 - 7y^3)(5y + 5)$$
$$= 240y^{10} + 360y^9 + 400y^8 + 280y^7$$

$$2. \ -2p^3(-6p^3 - p^2 + 4p)(-7p^4 - p^3)$$
$$= -84p^{10} - 26p^9 + 54p^8 + 8p^7$$

$$3. \ (-b^4 + 9b^3 - 2b^2)(-2b^4 + 2b^3 + 7b^2)(-4b^3 - 3b^2 - b)$$
$$= -8b^{11} + 74b^{10} - 2b^9 - 261b^8 - 136b^7 - 17b^6 + 14b^5$$

$$4. \ (-3g^4 - g^3)(8g - 6)(9g^5 - 6g^4 + 3g^3)$$
$$= -216g^{10} + 234g^9 - 78g^8 - 6g^7 + 18g^6$$

$$5. \ (h^4 - 9h^3)(2h^3 - 7h^2)(4h^5 - 8h^4 + 9h^3)$$
$$= 8h^{12} - 116h^{11} + 470h^{10} - 729h^9 + 567h^8$$

Multiplicar Tres Polinomios (F)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (F) Respuestas

Simplifique cada expresión.

$$1. \ 2k^3(-4k^3 + 5k^2 + 3k)(-2k^3 - 5k^2)$$
$$= 16k^9 + 20k^8 - 62k^7 - 30k^6$$

$$2. \ 5z^5(-2z^3 - 4z^2 - 3z)(-6z^4 + 3z^3 - z^2)$$
$$= 60z^{12} + 90z^{11} + 40z^{10} - 25z^9 + 15z^8$$

$$3. \ (-c^4 + 6c^3)(-7c^4 + 8c^3)(5c^4 - 3c^3 + 2c^2)$$
$$= 35c^{12} - 271c^{11} + 404c^{10} - 244c^9 + 96c^8$$

$$4. \ (-6k^2 - 3k)(9k + 1)(3k^4 - 5k^3)$$
$$= -162k^7 + 171k^6 + 156k^5 + 15k^4$$

$$5. \ -8t^4(5t^2 + 5t + 6)(3t + 6)$$
$$= -120t^7 - 360t^6 - 384t^5 - 288t^4$$

Multiplicar Tres Polinomios (G)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (G) Respuestas

Simplifique cada expresión.

$$1. (2r^4 - 5r^3 - 9r^2)(2r^4 - r^3)(-r^3 + 2r^2)$$
$$= -4r^{11} + 20r^{10} - 11r^9 - 35r^8 + 18r^7$$

$$2. 8k^3(-5k^4 - k^3)(4k^5 + 9k^4)$$
$$= -160k^{12} - 392k^{11} - 72k^{10}$$

$$3. 3q(-5q^4 - 9q^3 + 9q^2)(-7q^2 + 7q + 6)$$
$$= 105q^7 + 84q^6 - 468q^5 + 27q^4 + 162q^3$$

$$4. (-7t^4 - 9t^3)(4t^2 - 4t - 7)(-9t^4 - t^3)$$
$$= 252t^{10} + 100t^9 - 757t^8 - 652t^7 - 63t^6$$

$$5. (9t - 5)(6t^4 + 8t^3 + 6t^2)(3t^5 - t^4)$$
$$= 162t^{10} + 72t^9 - 104t^7 + 30t^6$$

Multiplicar Tres Polinomios (H)

Simplifique cada expresión.

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

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

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

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

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

Multiplicar Tres Polinomios (H) Respuestas

Simplifique cada expresión.

$$1. \ -7p(7p^3 - 6p^2 - p)(5p^4 - 6p^3 - 3p^2)$$
$$= -245p^8 + 504p^7 - 70p^6 - 168p^5 - 21p^4$$

$$2. \ 7z^4(-2z^4 + z^3 - 5z^2)(2z^4 + 2z^3)$$
$$= -28z^{12} - 14z^{11} - 56z^{10} - 70z^9$$

$$3. \ (-3f - 4)(-3f^3 - 4f^2)(-9f^5 - 7f^4 + 3f^3)$$
$$= -81f^9 - 279f^8 - 285f^7 - 40f^6 + 48f^5$$

$$4. \ (4c^4 - 9c^3)(8c^5 + 7c^4)(c^2 + 8c)$$
$$= 32c^{11} + 212c^{10} - 415c^9 - 504c^8$$

$$5. \ (5t^2 + 6t)(-6t^4 + 3t^3 + 4t^2)(7t^3 + 9t^2 + 7t)$$
$$= -210t^9 - 417t^8 - 133t^7 + 363t^6 + 482t^5 + 168t^4$$

Multiplicar Tres Polinomios (I)

Simplifique cada expresión.

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

$$2. \ (3f^4 + 6f^3 + 9f^2)(4f^3 + 2f^2 - 7f)(2f^2 + 4f)$$

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

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

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

Multiplicar Tres Polinomios (I) Respuestas

Simplifique cada expresión.

$$1. \ c(4c^3 + 5c^2 - 7c)(-8c^5 + c^4)$$
$$= -32c^9 - 36c^8 + 61c^7 - 7c^6$$

$$2. \ (3f^4 + 6f^3 + 9f^2)(4f^3 + 2f^2 - 7f)(2f^2 + 4f)$$
$$= 24f^9 + 108f^8 + 174f^7 + 60f^6 - 222f^5 - 252f^4$$

$$3. \ 7z^3(-4z^4 - 7z^3 - 4z^2)(4z^4 - 6z^3 - 3z^2)$$
$$= -112z^{11} - 28z^{10} + 266z^9 + 315z^8 + 84z^7$$

$$4. \ (6b^4 - 4b^3)(-3b^3 + 9b^2)(9b^2 + 2b)$$
$$= -162b^9 + 558b^8 - 192b^7 - 72b^6$$

$$5. \ (-3t^4 + 2t^3 - 3t^2)(3t^5 - 5t^4 + 5t^3)(5t^3 - 8t^2 + 8t)$$
$$= -45t^{12} + 177t^{11} - 410t^{10} + 565t^9 - 547t^8 + 320t^7 - 120t^6$$

Multiplicar Tres Polinomios (J)

Simplifique cada expresión.

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

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

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

$$4. 9r^4(5r - 9)(8r - 5)$$

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

Multiplicar Tres Polinomios (J) Respuestas

Simplifique cada expresión.

$$1. (-4r^3 + 7r^2)(-7r^3 - 5r^2 - 2r)(-4r^3 - 7r^2 + 3r)$$
$$= -112r^9 - 80r^8 + 395r^7 + 158r^6 + 17r^5 - 42r^4$$

$$2. (-9r^5 - 4r^4 + 6r^3)(7r^3 + 6r^2 - 7r)(-r^5 + 5r^4 + 7r^3)$$
$$= 63r^{13} - 233r^{12} - 932r^{11} - 233r^{10} + 929r^9 + 238r^8 - 294r^7$$

$$3. (6x^3 + 6x^2)(-5x^3 + 3x^2 - 4x)(-2x^4 - 7x^3)$$
$$= 60x^{10} + 234x^9 + 96x^8 + 90x^7 + 168x^6$$

$$4. 9r^4(5r - 9)(8r - 5)$$
$$= 360r^6 - 873r^5 + 405r^4$$

$$5. 3s^3(-2s^2 - 8s)(-9s^3 + 9s^2)$$
$$= 54s^8 + 162s^7 - 216s^6$$