



**Find each product.**

1)  $(0.1x + 3.4y)(4.4x^2 - 9.2xy - 5.6y^2)$

2)  $(3.2x - 6.351y)(6.7x^2 - 3.6xy + 1.8y^2)$

3)  $(4.5a - 5.26b)(6.5a^2 - 9.099ab - 1.4b^2)$

4)  $(1.4a - 2.9b)(6.3a^2 + 8.4ab - 1.272b^2)$

5)  $(7.6m - 2.424n)(6.8m^2 + 4.7mn + 6.2n^2)$

6)  $(6.3x + 8.3y)(7.1x^2 + 7.516xy - 9.5y^2)$

$$7) (0.7m - 6n)(5.3m^2 + 4.6mn + 0.9n^2)$$

$$8) (5.1x + 0.4y)(9.1x^2 + 7xy + 6.2y^2)$$

$$9) (9.78x - 1.82y)(5.3x^2 + 1.12xy + 5.7y^2)$$

$$10) (3.8x + 6.7y)(7.3x^2 + 10xy - 8.6y^2)$$

$$11) (1.2u - 7.06v)(8u^2 + 2.9uv - 3.1v^2)$$

$$12) (6.9x + 1.21y)(7.9x^2 - 5.4xy + 0.039y^2)$$

13)  $(3.3x + 9.1y)(8.2x^2 - 8.9xy - 2.22y^2)$

14)  $(4.4u - 2.7v)(8.1u^2 + 3.2uv + 2.88v^2)$

15)  $(7.5a + 10b)(4.4a^2 + 8.6ab + 8.9b^2)$

16)  $(2.32x - 9.5y)(2.9x^2 + 8.2xy - 7.18y^2)$

17)  $(0.6a + 2.1b)(0.7a^2 - 6.1ab - 0.5b^2)$

18)  $(0.603x - 4.06y)(5.9x^2 - 5.9xy - 5.7y^2)$

$$19) (5x + 7.68y)(3.6x^2 + 1.2xy + 7.6y^2)$$

$$20) (3.7m - 0.59n)(3.7m^2 + 10mn - 8.1n^2)$$

$$21) (8.1x + 0.6y)(0.8x^2 + 2.3xy + 5.96y^2)$$

$$22) (9.849m + 1.402n)(6.9m^2 + 0.6mn + 6.8n^2)$$

$$23) (1.1x - 7.3y)(7.2x^2 + 2.98xy + 5.1y^2)$$

$$24) (10x - 0.9y)(5.3x^2 - 9.9xy - 8.9y^2)$$

$$25) (4.3x + 5.4y)(3.5x^2 - 7xy - 3.6y^2)$$

$$26) (3x - 8.8y)(1.6x^2 - 4.5xy + 1.7y^2)$$

$$27) (6.1x - 6.62y)(9.5x^2 + 9.58xy + 2y^2)$$

$$28) (7.4u - 5.86v)(9.3u^2 + 8.2uv + 2.6v^2)$$

$$29) (4.452u - 0.4v)(9.7u^2 + 4.7uv - 8.7v^2)$$

$$30) (4.9x - 4y)(10x^2 + 6.3xy + 2.9y^2)$$

- 1)  $0.44x^3 + 14.04x^2y - 31.84xy^2 - 19.04y^3$
- 2)  $21.44x^3 - 54.0717x^2y + 28.6236xy^2 - 11.4318y^3$
- 3)  $29.25a^3 - 75.1355a^2b + 41.56074ab^2 + 7.364b^3$
- 4)  $8.82a^3 - 6.51a^2b - 26.1408ab^2 + 3.6888b^3$
- 5)  $51.68m^3 + 19.2368m^2n + 35.7272mn^2 - 15.0288n^3$
- 6)  $44.73x^3 + 106.2808x^2y + 2.5328xy^2 - 78.85y^3$
- 7)  $3.71m^3 - 28.58m^2n - 26.97mn^2 - 5.4n^3$
- 8)  $46.41x^3 + 39.34x^2y + 34.42xy^2 + 2.48y^3$
- 9)  $51.834x^3 + 1.3076x^2y + 53.7076xy^2 - 10.374y^3$
- 10)  $27.74x^3 + 86.91x^2y + 34.32xy^2 - 57.62y^3$
- 11)  $9.6u^3 - 53u^2v - 24.194uv^2 + 21.886v^3$
- 12)  $54.51x^3 - 27.701x^2y - 6.2649xy^2 + 0.04719y^3$
- 13)  $27.06x^3 + 45.25x^2y - 88.316xy^2 - 20.202y^3$
- 14)  $35.64u^3 - 7.79u^2v + 4.032uv^2 - 7.776v^3$
- 15)  $33a^3 + 108.5a^2b + 152.75ab^2 + 89b^3$
- 16)  $6.728x^3 - 8.526x^2y - 94.5576xy^2 + 68.21y^3$
- 17)  $0.42a^3 - 2.19a^2b - 13.11ab^2 - 1.05b^3$
- 18)  $3.5577x^3 - 27.5117x^2y + 20.5169xy^2 + 23.142y^3$
- 19)  $18x^3 + 33.648x^2y + 47.216xy^2 + 58.368y^3$
- 20)  $13.69m^3 + 34.817m^2n - 35.87nm^2 + 4.779n^3$
- 21)  $6.48x^3 + 19.11x^2y + 49.656xy^2 + 3.576y^3$
- 22)  $67.9581m^3 + 15.5832m^2n + 67.8144mn^2 + 9.5336n^3$
- 23)  $7.92x^3 - 49.282x^2y - 16.144xy^2 - 37.23y^3$
- 24)  $53x^3 - 103.77x^2y - 80.09xy^2 + 8.01y^3$
- 25)  $15.05x^3 - 11.2x^2y - 53.28xy^2 - 19.44y^3$
- 26)  $4.8x^3 - 27.58x^2y + 44.7xy^2 - 14.96y^3$
- 27)  $57.95x^3 - 4.452x^2y - 51.2196xy^2 - 13.24y^3$
- 28)  $68.82u^3 + 6.182u^2v - 28.812uv^2 - 15.236v^3$
- 29)  $43.1844u^3 + 17.0444u^2v - 40.6124uv^2 + 3.48v^3$
- 30)  $49x^3 - 9.13x^2y - 10.99xy^2 - 11.6y^3$