

Efectuar las siguientes operaciones con monomios:

1. $2a^2 + 5a^2 - 4a^2$

2. $6x^3 - 4x^3 + 5x^3$

3. $t^5 + 4t^5 - 7t^5$

4. $-2b^4 + 6b^4 + 7b^4 - 8b^4$

5. $7z + 9z - 8z + z$

6. $2x^2 + 5x^2 - 3x^2$

7. $3x^2y - 6x^2y + 5x^2y$

8. $4xy^2 - xy^2 - 7xy^2$

9. $2p^6 - 5p^6 - 3p^6 + p^6 + 10p^6$

10. $ab^3 + 3ab^3 - 5ab^3 + 6ab^3 - 4ab^3$

11. $7xy^2z - 2xy^2z + 3xy^2z - 9xy^2z$

12. $-x^3 + 5x - 2x + 3x^3 + x + 2x^3$

13. $x^4 + x^2 - 3x^2 + 2x^4 - 5x^4 + 8x^2$

14. $3x^2y - 5xy^2 + x^2y + xy^2$

15. $\frac{7}{3}m^2 + \frac{11}{3}m^2$

16. $-\frac{3}{2}a^2b + \frac{5}{4}a^2b - \frac{4}{3}a^2b$

17. $\frac{2}{3}x^5 + \frac{1}{2}x^5 - x^5 + \frac{5}{6}x^5$

18. $x^2y^2 - 5x^2y^2 - (3x^2y^2 - 4x^2y^2) - 8x^2y^2$

19. $s^2 + \frac{s^2}{3}$

20. $c^2 + c^2 - c^2 - 2c^2$

21. $\frac{1}{2}x^3 - \frac{9}{10}x^3 + \frac{7}{5}x^3 - x^3$

22. $-(ab^3 + a^3b) - 3a^3b + 5ab^3 - (a^3b - 2ab^3)$

23. $7x^2 - \frac{1}{2}x^2 - \frac{5}{2}x^2 + 2x^2 - \frac{3}{2}x^2$

24. $-v + v^2 + v^3 + 3v^2 - 2v^3 + 2v + 3v^3$

25. $2a^2b + 5a^2b - \frac{2}{3}a^2b - a^2b + \frac{a^2b}{2}$

26. $3a^2 \cdot 4a^3$

27. $2x^3 \cdot 4x^3 \cdot 3x^3$

28. $z^3 \cdot z^3$

29. $-2b^4 \cdot 3b^5$

30. $7x \cdot (-8x^2)$

31. $(-3y^2) \cdot (-2y^3)$

32. $3x^2y \cdot 6xy^3$

33. $\frac{3}{4}x^2 \cdot \frac{5}{9}x^3$

34. $4a^3b^2 \cdot a^2b \cdot 7ab$

35. $-\frac{1}{2}z^3 \cdot \frac{5}{3}z^4$

36. $2a^6 \cdot 3a^6 \cdot 2a^6$

37. $\frac{2}{5}h^3 \cdot \left(-\frac{3}{2}h\right)$

38. $ab^3 \cdot (-3a^2b) \cdot 5a^3b$

39. $t^2 \cdot \frac{1}{3}t^5$

40. $-xy^2z^3 \cdot (-3x^2yz) \cdot 3xyz$

41. $(6x^4) : (2x^2)$

42. $\frac{12a^6}{3a^3}$

43. $15x^4 : (-3x)$

44. $-8x^4 : (-4x^3)$

45. $\frac{-12a^5b^4c^6}{2a^3b^2c}$

46. $2y^4 \cdot 6y^3 : (4y^2)$

47. $\frac{3a^5b \cdot (-12a^4b^2)}{4a^3b^2}$

48. $27d^4 : (-9d^3) \cdot (-9d^2)$

Soluciones:

1. $3a^2$

2. $7x^3$

3. $-2t^5$

4. $3b^4$

5. $9z$

6. $4x^2$

7. $2x^2y$

8. $-4xy^2$

9. $5p^6$

10. ab^3

11. $-xy^2z$

12. $4x^3 + 4x$

13. $-2x^4 + 6x^2$

14. $4x^2y - 4xy^2$

15. $6m^2$

16. $-\frac{19}{12}a^2b$

17. x^5

18. $-11x^2y^2$

19. $\frac{4}{3}s^2 = \frac{4s^2}{3}$

20. $-c^2$

21. 0

22. $6ab^3 - 5a^3b$

23. $\frac{9}{2}x^2$

24. $v + 4v^2 + 2v^3$

25. $\frac{35}{6}a^2b$

26. $12a^5$

27. $24x^9$

28. z^6

29. $-6b^9$

30. $-56x^3$

31. $6y^5$

32. $18x^3y^4$

33. $\frac{5}{12}x^5$

34. $28a^6b^4$

35. $-\frac{5}{6}z^7$

36. $12a^{18}$

37. $-\frac{3}{5}h^4$

38. $-15a^6b^5$

39. $\frac{1}{3}t^7$

40. $9x^4y^4z^5$

41. $3x^2$

42. $4a^3$

43. $-5x^3$

44. $2x$

45. $-6a^2b^2c^5$

46. $3y^5$

47. $-9a^6b$

48. $27d^3$