

Talleres del libro Álgebra de Baldor que se debe realizar en clase y en casa y presentar para su calificación.

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Ejercicio

Sumar:

1. m, n	11. $-11m, 8m$	18. $-\frac{1}{2}xy, -\frac{1}{2}xy$	24. $a, -b, 2c$
2. $m, -n$	12. $9ab, -15ab$	19. $-\frac{3}{5}abc, -\frac{2}{5}abc$	25. $3m, -2n, 4p$
3. $-3a, 4b$	13. $-xy, -9xy$	20. $-4x^2y, \frac{3}{8}x^2y$	26. $a^2, -7ab, -5b^2$
4. $5b, -6a$	14. $mn, -11mn$	21. $\frac{3}{8}mn, -\frac{3}{4}mn$	27. $x^2, -3xy, -4y^2$
5. $7, -6$	15. $\frac{1}{2}a, -\frac{2}{3}b$	22. a, b, c	28. $x^3, -x^2y, 6$
6. $-6, 9$	16. $\frac{3}{5}b, \frac{3}{4}c$	23. $a, -b, c$	29. $2a, -b, 3a$
7. $-2x, 3y$	17. $\frac{1}{3}b, \frac{2}{3}b$		30. $-m, -8n, 4n$
8. $5mn, -m$			31. $-7a, 8a, -b$
9. $5a, 7a$			32. $\frac{1}{2}x, \frac{2}{3}y, -\frac{3}{4}x$
10. $-8x, -5x$			

33. $-\frac{3}{5}m, -m, -\frac{2}{3}mn$	42. $m^3, -4m^2n, 5m^3, -7mn^2, -4m^2n, -5m^3$
34. $-7a^2, 5ab, 3b^2, -a^2$	43. $9x, -11y, -x, -6y, 4z, -6z$
35. $-7mn^2, -5m, 17mn^2, -4m$	44. $6a^2, -7b^2, -11, -5ab, 9a^2, -8b^2$
36. $x^3, -8x^2y, 5, -7x^3, 4x^2y$	45. $-x^2y^2, -5xy^3, -4y^4, 7xy^3, -8, x^2y^2$
37. $5x^2, 9xy, -6xy, 7y^2, -x^2$	46. $3a, \frac{1}{2}b, -4, -b, -\frac{1}{2}a, 6$
38. $-8a^2b, 5ab^2, -a^2b, -11ab^2, -7b^3$	47. $\frac{1}{2}x, \frac{2}{3}xy, \frac{5}{6}y^2, -\frac{1}{3}xy, \frac{3}{4}x^2, -\frac{5}{8}y^2$
39. $m^3, -8m^2n, 7mn^2, -n^3, 7m^2n$	48. $5a^x, -6a^{x+1}, 8a^{x+2}, a^{x+1}, 5a^{x+1}, -5a^x$
40. $\frac{1}{2}a, \frac{2}{3}b, -\frac{1}{4}a, \frac{1}{5}b, -6$	49. $\frac{3}{4}x^2, -\frac{2}{3}xy, \frac{1}{3}y^2, -\frac{1}{3}xy, x^2, 5y^2$
41. $a, -3b, -8c, 4b, -a, 8c$	50. $\frac{3}{4}a^2b, \frac{1}{2}ab^2, -\frac{1}{4}a^2b, \frac{1}{2}ab^2, a^2b, -\frac{5}{6}ab^2$

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Ejercicio

Hallar la suma de:

1. $3a + 2b - c; 2a + 3b + c$	7. $-7x - 4y + 6z; 10x - 20y - 8z; -5x + 24y + 2z$
2. $7a - 4b + 5c; -7a + 4b - 6c$	8. $-2m + 3n - 6; 3m - 8n + 8; -5m + n - 10$
3. $m + n - p; -m - n + p$	9. $-5a - 2b - 3c; 7a - 3b + 5c; -8a + 5b - 3c$
4. $9x - 3y + 5; -x - y + 4; -5x + 4y - 9$	10. $ab + bc + cd; -8ab - 3bc - 3cd; 5ab + 2bc + 2cd$
5. $a + b - c; 2a + 2b - 2c; -3a - b + 3c$	11. $ax - ay - az; -5ax - 7ay - 6az; 4ax + 9ay + 8az$
6. $p + q + r; -2p - 6q + 3r; p + 5q - 8r$	12. $5x - 7y + 8; -y + 6 - 4x; 9 - 3x + 8y$

13. $-am + 6mn - 4s; 6s - am - 5mn; -2s - 5mn + 3am$	
14. $2a + 3b; 6b - 4c; -a + 8c$	
15. $6m - 3n; -4n + 5p; -m - 5p$	
16. $2a + 3b; 5c - 4; 8a + 6; 7c - 9$	
17. $2x - 3y; 5z + 9; 6x - 4; 3y - 5$	
18. $8a + 3b - c; 5a - b + c; -a - b - c; 7a - b + 4c$	
19. $7x + 2y - 4; 9y - 6z + 5; -y + 3z - 6; -5 + 8x - 3y$	
20. $-m - n - p; m + 2n - 5; 3p - 6m + 4; 2n + 5m - 8$	
21. $5a^x - 3a^m - 7a^n; -8a^x + 5a^m - 9a^n; -11a^x + 5a^m + 16a^n$	
22. $6m^{a+1} - 7m^{a+2} - 5m^{a+3}; 4m^{a+1} - 7m^{a+2} - m^{a+3}; -5m^{a+1} + 3m^{a+2} + 12m^{a+3}$	
23. $8x + y + z + u; -3x - 4y - 2z + 3u; 4x + 5y + 3z - 4u; -9x - y - z + 2u$	
24. $a + b - c + d; a - b + c - d; -2a + 3b - 2c + d; -3a - 3b + 4c - d$	
25. $5ab - 3bc + 4cd; 2bc + 2cd - 3de; 4bc - 2ab + 3de; -3bc - 6cd - ab$	
26. $a - b; b - c; c + d; a - c; c - d; d - a; a - d$	

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Ejercicio

Hallar la suma de:

1. $x^2 + 4x$; $-5x + x^2$
2. $a^2 + ab$; $-2ab + b^2$
3. $x^3 + 2x$; $-x^2 + 4$
4. $a^4 - 3a^2$; $a^3 + 4a$
5. $-x^2 + 3x$; $x^3 + 6$
6. $x^2 - 4x$; $-7x + 6$; $3x^2 - 5$
7. $m^2 + n^2$; $-3mn + 4n^2$; $-5m^2 - 5n^2$
8. $3x + x^3$; $-4x^2 + 5$; $-x^3 + 4x^2 - 6$
9. $x^2 - 3xy + y^2$; $-2y^2 + 3xy - x^2$; $x^2 + 3xy - y^2$
10. $a^2 - 3ab + b^2$; $-5ab + a^2 - b^2$; $8ab - b^2 - 2a^2$
11. $-7x^2 + 5x - 6$; $8x - 9 + 4x^2$; $-7x + 14 - x^2$
12. $a^3 - 4a + 5$; $a^3 - 2a^2 + 6$; $a^2 - 7a + 4$
13. $-x^2 + x - 6$; $x^3 - 7x^2 + 5$; $-x^3 + 8x - 5$
14. $a^3 - b^3$; $5a^2b - 4ab^2$; $a^3 - 7ab^2 - b^3$
15. $x^3 + xy^2 + y^3$; $-5x^2y + x^3 - y^3$; $2x^3 - 4xy^2 - 5y^3$
16. $-7m^2n + 4n^3$; $m^3 + 6mn^2 - n^3$; $-m^3 + 7m^2n + 5n^3$
17. $x^4 - x^2 + x$; $x^3 - 4x^2 + 5$; $7x^2 - 4x + 6$
18. $a^4 + a^6 + 6$; $a^5 - 3a^3 + 8$; $a^3 - a^2 - 14$
19. $x^5 + x - 9$; $3x^4 - 7x^2 + 6$; $-3x^3 - 4x + 5$
20. $a^3 + a$; $a^2 + 5$; $7a^2 + 4a$; $-8a^2 - 6$
21. $x^4 - x^2y^2$; $-5x^3y + 6xy^3$; $-4xy^3 + y^4$; $-4x^2y^2 - 6$
22. $xy + x^2$; $-7y^2 + 4xy - x^2$; $5y^2 - x^2 + 6xy$; $-6x^2 - 4xy + y^2$
23. $a^3 - 8ax^2 + x^3$; $5a^2x - 6ax^2 - x^3$; $3a^3 - 5a^2x - x^3$; $a^3 + 14ax^2 - x^3$
24. $-8a^2m + 6am^2 - m^3$; $a^3 - 5am^2 + m^3$; $-4a^3 + 4a^2m - 3am^2$; $7a^2m - 4am^2 - 6$
25. $x^5 - x^3y^2 - xy^4$; $2x^4y + 3x^2y^3 - y^5$; $3x^3y^2 - 4xy^4 - y^5$; $x^5 + 5xy^4 + 2y^5$
26. $a^5 + a^6 + a^2$; $a^4 + a^3 + 6$; $3a^2 + 5a - 8$; $-a^5 - 4a^2 - 5a + 6$
27. $a^4 - b^4$; $-a^3b + a^2b^2 - ab^3$; $-3a^4 + 5a^3b - 4a^2b^2$; $-4a^3b + 3a^2b^2 - 3b^4$
28. $m^3 - n^3 + 6m^2n$; $-4m^2n + 5mn^2 + n^3$; $m^3 - n^3 + 6mn^2$; $-2m^3 - 2m^2n + n^3$
29. $a^x - 3a^{x-2}$; $5a^{x-1} + 6a^{x-3}$; $7a^{x-3} + a^{x-4}$; $a^{x-1} - 13a^{x-3}$
30. $a^{x+2} - a^x + a^{x+1}$; $-3a^{x+3} - a^{x-1} + a^{x-2}$; $-a^x + 4a^{x+3} - 5a^{x+2}$; $a^{x-1} - a^{x-2} + a^{x+2}$

Hallar la suma de:

1. $\frac{1}{2}x^2 + \frac{1}{3}xy$; $\frac{1}{2}xy + \frac{1}{4}y^2$
2. $a^2 + \frac{1}{2}ab$; $-\frac{1}{4}ab + \frac{1}{2}b^2$; $-\frac{1}{4}ab - \frac{1}{5}b^2$
3. $x^2 + \frac{2}{3}xy$; $-\frac{1}{6}xy + y^2$; $-\frac{5}{6}xy + \frac{2}{3}y^2$
4. $\frac{3}{4}x^2 - \frac{1}{2}y^2$; $-\frac{2}{5}xy + \frac{1}{6}y^2$; $\frac{1}{10}xy + \frac{1}{3}y^2$
5. $\frac{2}{3}a^2 + \frac{1}{5}ab - \frac{1}{2}b^2$; $\frac{5}{6}a^2 - \frac{1}{10}ab + \frac{1}{6}b^2$; $-\frac{1}{12}a^2 + \frac{1}{20}ab - \frac{1}{3}b^2$
6. $\frac{5}{6}x^2 - \frac{2}{3}y^2 + \frac{3}{4}xy$; $-\frac{1}{2}xy - \frac{1}{6}x^2 + \frac{1}{8}y^2$; $\frac{5}{8}xy - \frac{1}{3}x^2 + \frac{1}{4}y^2$
7. $a^3 - \frac{1}{2}ab^2 + b^3$; $\frac{5}{6}a^2b - \frac{3}{8}ab^2 - 2b^3$; $\frac{1}{4}a^3 - \frac{1}{2}a^2b - \frac{3}{5}b^3$
8. $x^4 - x^2 + 5$; $\frac{2}{3}x^3 - \frac{3}{8}x - 3$; $-\frac{3}{5}x^4 + \frac{5}{8}x^3 - \frac{3}{4}x$
9. $\frac{2}{3}m^3 - \frac{1}{4}mn^2 + \frac{2}{5}n^3$; $\frac{1}{6}m^2n + \frac{1}{8}mn^2 - \frac{3}{5}n^3$; $m^3 - \frac{1}{2}n - n^3$
10. $x^4 + 2x^2y^2 + \frac{2}{7}y^4$; $-\frac{5}{6}x^4 + \frac{3}{8}x^2y^2 - \frac{1}{6}xy^3 - \frac{1}{14}y^4$; $-\frac{5}{6}x^3y - \frac{1}{4}x^2y^2 + \frac{1}{7}y^4$
11. $x^5 - \frac{2}{3}x^3 + \frac{4}{5}x$; $-3x^5 + \frac{3}{8}x^2 - \frac{1}{10}x$; $-\frac{2}{3}x^4 + \frac{1}{8}x^3 - \frac{1}{4}x^2$; $-\frac{1}{12}x^3 + \frac{3}{5}x - 4$
12. $\frac{2}{9}a^3 + \frac{5}{6}ax^2 - \frac{1}{3}x^3$; $-\frac{3}{7}a^2x - \frac{7}{8}ax^2 - \frac{1}{9}x^3$; $-\frac{2}{3}a^3 + \frac{1}{2}a^2x - \frac{1}{4}ax^2$
13. $a^6 - a^4 + a^2$; $\frac{3}{5}a^5 - \frac{3}{8}a^3 - \frac{1}{2}a$; $-\frac{3}{7}a^4 - \frac{5}{8}a^2 + 6$; $-\frac{3}{8}a - 6$
14. $x^5 - y^5$; $\frac{1}{10}x^3y^2 - \frac{3}{4}xy^4 - \frac{1}{6}y^6$; $\frac{3}{5}x^4y - \frac{5}{6}x^2y^3 - \frac{1}{9}y^6$; $2x^4y - \frac{2}{5}x^3y^2 - \frac{1}{3}y^5$

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Ejercicio

Sumar las expresiones siguientes y hallar el valor numérico del resultado para $a = 2$, $b = 3$,

$c = 10$, $x = 5$, $y = 4$, $m = \frac{2}{3}$, $n = \frac{1}{5}$.

1. $4x - 5y$; $-3x + 6y - 8$; $-x + y$
2. $x^2 - 5x + 8$; $-x^2 + 10x - 30$; $-6x^2 + 5x - 50$
3. $x^4 - y^4$; $-5x^2y^2 - 8 + 2x^4$; $-4x^4 + 7x^3y + 10xy^3$
4. $3m - 5n + 6$; $-6m + 8 - 20n$; $-20n + 12m - 12$
5. $nx + cn - ab$; $-ab + 8nx - 2cn$; $-ab + nx - 5$
6. $a^3 + b^3$; $-3a^2b + 8ab^2 - b^3$; $-5a^3 - 6ab^2 + 8$; $3a^2b - 2b^3$
7. $27m^3 + 125n^3$; $-9m^2n + 25mn^2$; $-14mn^2 - 8$; $11mn^2 + 10m^2n$
8. $x^{a-1} + y^{b-2} + m^{x-4}$; $2x^{a-1} - 2y^{b-2} - 2m^{x-4}$; $3y^{b-2} - 2m^{x-4}$
9. $n^{b-1} - m^{x-3} + 8$; $-5n^{b-1} - 3m^{x-3} + 10$; $4n^{b-1} + 5m^{x-3} - 18$
10. $x^3y - xy^3 + 5$; $x^4 - x^2y^2 + 5x^3y - 6$; $-6xy^3 + x^2y^2 + 2$; $-y^4 + 3xy^3 + 1$
11. $\frac{3}{4}a^2 + \frac{2}{3}b^2$; $-\frac{1}{3}ab + \frac{1}{9}b^2$; $\frac{1}{6}ab - \frac{1}{3}b^2$
12. $\frac{9}{17}m^2 + \frac{25}{34}n^2 - \frac{1}{4}$; $-15mn + \frac{1}{2}$; $\frac{5}{17}n^2 + \frac{7}{34}m^2 - \frac{1}{4}$; $-\frac{7}{34}m^2 - 30mn + 3$
13. $\frac{1}{2}b^2m - \frac{3}{5}cn - 2$; $\frac{3}{4}b^2m + 6 - \frac{1}{10}cn$; $-\frac{1}{4}b^2m + \frac{1}{25}cn + 4$; $2cn + \frac{3}{5} - \frac{1}{8}b^2m$
14. $0.2a^3 + 0.4ab^2 - 0.5a^2b$; $-0.8b^3 + 0.6ab^2 - 0.3a^2b$; $-0.4a^3 + 6 - 0.8a^2b$; $0.2a^3 + 0.9b^3 + 1.5a^2b$