ECUACIONES EXPONENCIALES

DIRECTAS

1. $2^x = 8$
2. $2^x = 64$
3. $2^{x+1} = 256$
4. $2^x = 1024$
5. $2^{x+1} = 8$
6. $4^{x+1} = 8$
7. $3^x = 27$
8. $3^x = 81$
9. $3^{x+1} = 729$
10. $5^x = 125$
11. $5^{x+2} = 625$
12. $2^{x+1} = 16$
13. $2^{x-1} = 64$
14. $2^{x+2} = 256$
15. $2^{x-2} = 1024$

CON PRODUCTOS

16. $2.5^x = 250$
17. $3.2^x = 24$
18. $3.5^x = 1875$
19. $3.5^x = 75$
20. $7.2^x = 224$
21. $9.3^{x-1} = 243$
22. $125.5^{3x} = 1$
23. $7^{x+1} = 2401$
24. $5^{x^2-x-20} = 1$
25. $8.2^{1-x} = 64$
26. $7^{x^2}.7^{-5x}.7^4 = 1$
27. $25.5^{x-1} = 5^5$
28. $10^{x-2}.1000 = 1$
29. $7^{x+1}.7^x = 7^{x-1}.\frac{1}{7}$

CON SUMAS Y RESTAS

30. $5^{x-1} + 100 = 5^x$
31. $4^x + 4^{x-1} - 4^{x+1} + 44 = 0$
32. $11^x - 11^{x+2} = 1320$
33. $3^x + 3^{x+1} + 3^{x-1} = 351$
34. $2^{x-1} + 2^x + 2^{x+1} = 7$
35. $3^{x-1} + 3^x + 3^{x+1} = 117$
36. $2^x + 2^{x+1} + 2^{x+2} + 2^{x+3} = 480$
37. $2^x + 2^{x+1} + 2^{x+2} + 2^{x+3} = \frac{15}{2}$
38. $3^x + 3^{x-1} = 12$
39. $3^{2x} + 81 = 2.3^{x+2}$
40. $3^{2.(x+1)} - 28.3^x + 3 = 0$
41. $3^{2x-1} - 8.3^{x-1} = 3$
42. $2^{x+3} + 4^{x+1} - 320 = 0$
43. $3^{2x+2} - 28.3^x + 3 = 0$
44. $9^x - 2.3^{x+2} + 1 = -80$
45. $4^x - 3.2^{x+1} + 8 = 0$
46. $5^{2x} - 30.5^x + 125 = 0$
47. $5^{2x} - 6.5^x + 5 = 0$
48. $4^x - 5.2^x + 4 = 0$
49. $9^x - 2.3^x = 3$

SOLUCIONES:

1. $x = 3$
2. $x = 6$
3. $x = 7$
4. $x = 10$
5. $x = 2$
6. $x = 2^{-1}$
7. $x = 3$
8. $x = 4$
9. $x = 5$
10. $x = 3$
11. $x = 2$
12. $x = 3$
13. $x = 7$
14. $x = 6$
15. $x = 8$
16. $x = 3$
17. $x = 3$
18. $x = 4$
19. $x = 2$
20. $x = 5$
21. $x = 4$
22. $x = -1$
23. $x = 3$
24. $x_1 = 5;\ x_2 = -4$
25. $x = -2$
26. $x_1 = 4;\ x_2 = 1$
27. $x = 4$
28. $x = -1$
29. $x = -3$
30. $x = 3$
31. $x = 2$
32. $x = 1$
33. $x = 4$
34. $x = 1$
35. $x = 3$
36. $x = 5$
37. $x = -1$
38. $x = 2$
39. $x = 2$
40. $x_1 = -2;\ x_2 = 1$
41. $x = 2$
42. $x = 3$
43. $x_1 = -2;\ x_2 = 1$
44. $x = 2$
45. $x_1 = 2;\ x_2 = 1$
46. $x_1 = 2;\ x_2 = 1$
47. $x_1 = 0;\ x_2 = 1$
48. $x_1 = 0;\ x_2 = 2$
49. $x = 1$