

ECUACIONES EXPONENCIALES

1. $5^{1-x} = \frac{1}{125}$ $x = 4$
2. $4^{3+x} = 16$ $x = -1$
3. $27^{x-1} = 9^{3x+1}$ $x = -\frac{5}{3}$
4. $7^{2x} \cdot 7^{-5x+2} = 49$ $x = 0$
5. $5^{x-1} + 5^x + 5^{x+1} = 775$ $x = 3$
6. $2^{x+1} + 2^x + 2^{x-1} + 2^{x-2} + 2^{x-3} = 496$ $x = 7$
7. $5^{1-x} + 5^{2-x} = \frac{6}{25}$ $x = 3$
8. $3^{x+1} + 9^x = 108$ $x = 2$
9. $2^{2x-3} + 1 = 3 \cdot 2^{x-2}$ $x = 2, x = 1$
10. $3^{2x} - 10 \cdot 3^x + 9 = 0$ $x = 2, x = 0$
11. $2^{x+2} + 4^{x+1} = 80$ $x = 2$
12. $3^{x-1} = \frac{5}{3^{x-2}} - 14$ $x = 1$
13. $3^{2x-3} + 1 = 4 \cdot 3^{x-2}$ $x = 2, x = 1$
14. $2^{2x} - 10 \cdot 2^x + 16 = 0$ $x = 3, x = 1$
15. $16^x - 4^x = 240$ $x = 2$
16. $9^x - 6 \cdot 3^{x+1} + 81 = 0$ $x = 2$
17. $3^{x+2} + 9^{x+1} = 810$ $x = 2$
18. $5^{x-1} = 2 + \frac{3}{5^{x-2}}$ $x = 2$
19. $8^{5-x} = 1$ $x = +5$
20. $\left(\frac{1}{2}\right)^{4+x} = 1$ $x = -4$
21. $4^{2x+1} = 64$ $x = +1$