

Equazioni esponenziali

1.  $2^x = \frac{1}{8}$
2.  $(0,1)^x = 10$
3.  $\left(\frac{2}{3}\right)^x = \frac{27}{8}$
4.  $(\sqrt{7})^x = 49$
5.  $\left(\sqrt[3]{\frac{2}{5}}\right)^x = \frac{25}{4}$
6.  $\left(\frac{1}{2}\right)^x = 2$
7.  $(2\sqrt{3})^x = 144$
8.  $25^x = 5$
9.  $(0,03)^x = 1$
10.  $3^{2x+1} = 1$
11.  $2^{2-x} = 8$
12.  $9^{4-x} = \frac{1}{3}$
13.  $3^{4+x} = 9$
14.  $\left(\frac{1}{2}\right)^{x-2} = 4$
15.  $e^{3x} = e^2$
16.  $e^{2x-1} = e^{\frac{1}{x}}$
17.  $e^{-x+1} = -3$
18.  $e^{-x+4} = -e^{5x+1}$
19.  $7^{2x+5} = 7^{\frac{x-1}{2}}$
20.  $3^{x+7} = \frac{1}{3^{x-5}}$
21.  $4^{\frac{3+x}{x-1}} = 2^{5x}$
22.  $2^{\frac{x+9}{1-x}} = \frac{1}{4}$
23.  $7^{\sqrt{x^2-1}} = 49$
24.  $(2^{x+3})^{x-4} = 1$
25.  $(2e^x + 3)(e^{2x-5} - 1) = 0$
26.  $\left(\frac{1}{5}\right)^{|x+4|} = 5^{2x}$
27.  $|2^{x+1} - 1| = 7$
28.  $\frac{5 \cdot 4^{x-2}}{4^x - 11} = 1$
29.  $4^{\sqrt{|x+2|}} = 16$
30.  $2^{2-x} - 2^{3-x} + 2^x = 0$
31.  $2^{2x+1} - 17 \cdot 2^x + 8 = 0$
32.  $27^{\frac{5x^2-3}{x^2+1}} = 27^{\frac{5-x^2}{3x^2+1}}$
33.  $3^{x+1} + 3^{x-2} - \frac{247}{3^{x-2}} = \frac{15}{3^{x-1}}$
34.  $13 \cdot 3^{1+x} - 3^{3-x} - \frac{13}{3^x} + 1 = 0$
35.  $4^{2-x} - 5 \cdot 2^{1-x} + 1 = 0$
36.  $\frac{3 \cdot 3^x + 3^{2-x} - 4}{3^x} = \frac{8}{3}$
37.  $2^{5x+2} + 2^{5x+8} - 32^{x+1} = 912$
38.  $5^{1+\sqrt{x}} + 5^{1-\sqrt{x}} = 10$
39.  $\frac{5^{4x-1}}{5^{x-1}} - \frac{5^{3x}}{5^{x-1}} - \frac{5^{1-x}}{5^{1-2x}} + 5 = 0$
40.  $50 \left(\frac{4}{25}\right)^x - 133 \left(\frac{2}{5}\right)^x + 20 = 0$
41.  $4 \left(\frac{3}{2}\right)^{2x} + 15 \left(\frac{3}{2}\right)^{-x} = 19$
42.  $5 \cdot 3^{x-1} - 3 \frac{5^{2x-1}}{5^x} = 0$
43.  $3 \cdot 3^{2x} + 7^{2x+1} = 3^{2x+2} + 7^{2x}$
44.  $e^{2x} + e^x - 2 = 0$
45.  $e^{2x} + e^{\frac{7}{3}} = e^{2+x} + e^{\frac{3x+1}{3}}$
46.  $e^{2x} + 3e^x - 4 = 0$
47.  $e^{\frac{3x+8}{2}} - e^{\frac{x+2}{2}} + e^{x+3} - 1 = 0$
48.  $7^x = 9$
49.  $10^x = \frac{1}{3}$
50.  $e^{2x} = 3$
51.  $e^{|x|} = 2$
52.  $e^{2x-1} \cdot e^{-x+7} = 3$
53.  $(2e^{-x} - 3)(e^{3x} + 5) = 0$
54.  $3^{1-x} - 3^{2+x} = 1$

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55.  $\frac{3^{4x-2}}{3^{x-2}} - 2 \cdot 3^{2x+1} - \frac{57}{3^{1-x}} + 84 = 0$

56.  $|3^{2x} - 2| = 3^x$

57.  $3 \cdot 2^{x \log_2 9} - 2^{x \log_2 3} - 2 = 0$

58.  $3^{3x} - 3^{2x+1} + 2 = 0$

59.  $2^{3x} - 2^{2x+1} - 23 \cdot 2^x + 60 = 0$

60.  $2^{2x} - 5^x - 4^{x-1} + 25^{\frac{x}{2}-1} = 0$

61.  $\frac{1}{3^x - 1} + \frac{2}{3^x + 1} = 2$

62.  $\frac{9}{3^x - 3} - \frac{4}{3^x - 6} = \frac{9^x - 56}{9^x - 3^{x+2} + 18}$

63.  $e^{2x} - 5e^x - 36 = 0$

64.  $e^{2x} - 4e^x - 29 - 24e^{-x} = 0$

65.  $e^{x+1} - 10^4 \cdot e^{-(x+1)} - 45 = 0$

66.  $e^{|x|-1} = 3$

67.  $\frac{1}{|e^x - 1|} = 1$