

Esercizi del Corso di Recupero Ofa di Matematica

1 Quarta lezione:

1.

$$\log_9(x) + \log_{27}(x) = \frac{5}{6}$$

2.

$$\log(2x^2 - x) = 0$$

3.

$$\log^2 x - \log x - 2 = 0$$

4.

$$\log(e^x + e) = 2$$

5.

$$\frac{e^{3x^3} e^3}{e^{2x}} = e^{2x^2 + x + 1}$$

6.

$$2^{1 - \frac{1}{x}} = \frac{\sqrt{x} \sqrt{3^{x+1}}}{9}$$

7.

$$2^{x^2 - 5x + 6} = 1$$

8.

$$3^{x+1} - 2^x = 2^{x+3} - 3^{x-1}$$

9.

$$2^{x+2} = 5^{x+1}$$

10.

$$\log_7(2x + 3) > 1$$

11.

$$\log_1 \frac{(3x)}{2} \geq 3$$

12.

$$\log_3(x + 1) \geq \log_9(2x + 3)$$

13.

$$2 \log x - 2 \log(x + 2) > 0$$

14.

$$\log_2 \frac{x + 3}{x} > 0$$

15.

$$\log_{\frac{1}{2}}(3x+7) \geq \log_2(2x-5)$$

16.

$$\left(\frac{1}{3}\right)^x > \frac{1}{27}$$

17.

$$3^{2x-1} \geq 4$$

18.

$$2^{-2x} - 4 \cdot 2^x \geq 0$$

19.

$$3^{x-1} > -5^{3x}$$

20.

$$3^{x-1} > 5^{3x}$$

21.

$$\frac{2^{x-1} \cdot 4^{1+x}}{6^{1-x}} < 3$$