Pog 682 n 36

Elog₄ (3x)
$$\int_{-\infty}^{2} - \log_4 (9x^2) + 1 \le 0$$

[log₄ (2x) $\int_{-\infty}^{2} - \log_4 (3x)^2 + 1 \le 0$

[log₄ (2x) $\int_{-\infty}^{2} - 2\log_4 (3x) + 1 \le 0$

(log₄ (2x) $\int_{-\infty}^{2} - 2\log_4 (3x) + 1 \le 0$

Rus fore solo 0 $\log_4 (3x) = 1$ $3x = 4$ $x = \frac{4}{3}$

Pag (40 n.524

$$log_{1}(3x-2) + log_{\frac{1}{2}}(2x-1) \le 2$$
 $log_{1}(3x-2) + log_{\frac{1}{2}}(2x-1) \le 2$
 $log_{1}(3x-2) + log_{2}(2x-1) \le 2$
 $log_{2}(3x-2) - log_{2}(2x-1) \le 2$
 $log_{2}(\frac{3x-2}{2x-1}) \le log_{2}(4)$
 $log_{2}(\frac{3x-2}{2x-1}) \le log_{2}(2x-1) \le 2$
 $log_{2}(\frac{3x-2}{2x-1}) \le log_{2}(\frac{3x-2}{2}) \le log_{2}(\frac{3x-2}{$

$$\frac{333}{2} \text{ peg}(5)$$

$$\frac{2.4^{x} - 5.2^{x} + 2}{(25^{x} - 5)(8|.3^{x} - 3)}$$

$$\frac{10.20}{2} \text{ 2x}^{x} + \text{1} \qquad 2t^{2} - 5t + 2 \ge 0$$

$$2t^{2} - 4t - t + 2 \ge 0$$

$$2t + (t - 2) - (t - 2) \ge 0$$

$$(2t - 1)(t - 2) \ge 0$$

$$(2t - 1)(t - 2) \ge 0$$

$$2^{x} \le \frac{1}{2} \times 2^{x} \ge 2$$

$$x \le -1 \times x \ge 1$$

$$x \ge 1$$

$$x \ge 1$$

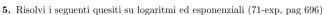
$$x \ge 2$$

$$x \le -1$$

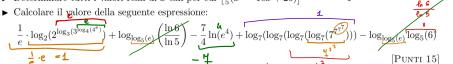
$$x \ge 2$$

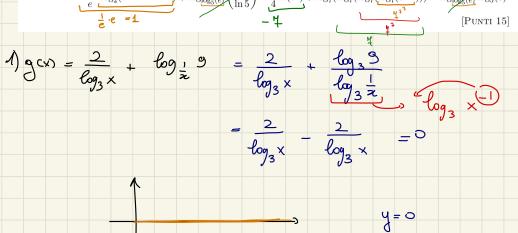
$$x \le 4$$

$$x \ge 4$$



- ▶ Si consideri l'espressione algebrica $g(x) = \frac{2}{\log_3(x)} + \log_{\frac{1}{x}} g$. Si calcoli il dominio naturale di g, si dica
 - se è iniettiva e si disegni il suo grafico
 - ▶ Determinare tutti i valori reali di x tali per cui $\left[\frac{1}{5}(x^2 10x + 26)\right]^{x^2 6x + 1} = 1$





2) $\left[\frac{1}{5}(x^2-10x+26)\right]$

b)
$$\frac{1}{5}(x^2-10x+26)=1$$

$$\left[\log_3(x-1)\right]^2 = \log_3(x-1)^2$$

$$\frac{3+2}{2+2} = \log_3 x$$

$$A = (2,3)$$
 $B = (2,5)$

$$M = \frac{5-3}{2-2}$$
 $M = 1$ $M = 0$