

463
$$\log_{\frac{1}{4}}(x^2 - 6) - \log_{\frac{1}{4}}(x - 3) > -1$$

c.E. $\begin{cases} x^2 - 6 > 0 & \begin{cases} x < -\sqrt{6} & \sqrt{x} > \sqrt{6} \\ x > 3 \end{cases} => \times > 3 \end{cases}$

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$$\begin{cases} \log_{\frac{1}{4}} \frac{x^2 - 6}{x - 3} > -\log_{\frac{1}{4}} \frac{1}{4} \end{cases}$$

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$$\begin{cases} \frac{x^2 - 6}{x - 3} < 4 \\ \frac{x^2 - 6}{x - 3} < 4 \end{cases}$$

$$\begin{cases} x^2 - 6 < 4(x - 3) \\ x > 3 \end{cases}$$

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476
$$2(\log_3 x)^2 + 3\log_3 x - 2 < 0$$
 $\frac{1}{9} < x < \sqrt{3}$

$$\left[\frac{1}{9} < x < \sqrt{3}\right]$$

$$log_3 x = t$$

$$-2 < t < \frac{1}{2}$$

$$-2 < l_{3} \times < \frac{4}{2}$$

$$-2 < \log_3 x < \frac{1}{2}$$
) applies l'exponensible in base 3

$$\begin{cases} \frac{1}{9} < \times < \sqrt{3} \\ \times > 0 \\ 1 \end{cases}$$

$$[\log_{2}(x+5)]^{2} - \log_{2}(x+5) - 6 > 0$$

$$[-5 < x < -\frac{19}{4} \lor x > 3]$$

$$c.\varepsilon. \times +5 > o \times > -5$$

$$t = 2\omega_{2}(x+5)$$

$$t^{2} - t - 6 > 0$$

$$(t-3)(t+2) > o$$

$$t < -2 \lor t > 3$$

$$2\omega_{2}(x+5) < -2 \lor 2\omega_{2}(x+5) > 3$$

$$2\omega_{3}(x+5) < -2 \lor 2\omega_{3}(x+5) > 2$$

$$x + 5 < \frac{1}{4} \lor x > 5$$

$$x < -5 + \frac{1}{4} \lor x > 3$$

$$x < -5 + \frac{1}{4} \lor x > 3$$

$$x < -\frac{19}{4} \lor x > 3$$

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