



$$3^{x+1} - 2 \cdot 3^x + 3^{x+2} = 5^{x-1}$$

$$\left[\frac{2\log 5 + \log 2}{\log 5 - \log 3} \right]$$

 $\left(\frac{3}{5}\right)^{\times} = \frac{1}{50}$

$$3^{\times} \cdot 3^{1} - 2 \cdot 3^{\times} + 3^{\times} \cdot 3^{2} = 5^{\times} \cdot 5^{-1}$$
 $3^{\times} (3 - 2 + 9) = \frac{1}{5} \cdot 5^{\times}$

$$3^{\times} \cdot 10 = \frac{1}{5} \cdot 5^{\times}$$

$$\log 3^{\times} = \log \left(\frac{1}{50} \cdot 5^{\times}\right)$$

$$\times (\log 5 - \log 3) = -\log \frac{1}{50}$$

x = 200,50 = - 200,3

$$= \frac{-\log 5^2 - \log 2}{\log 3 - \log 5} = \frac{2\log 5 + \log 2}{\log 5 - \log 3}$$

 $= \frac{\log 1 - \log 50}{\log 3 - \log 5} = \frac{\log (5^2 \cdot 2)}{\log 3 - \log 5}$

 $x = 200, \frac{1}{50} = 200, \frac{1}{50}$ $200, \frac{3}{5}$

$$\log_{6} \sqrt{x^{2}-2x} < \log_{6} |x| - \frac{1}{2} \qquad \left[2 < x < \frac{12}{5} \right]$$

$$\log_{6} \sqrt{x^{2}-2x} < \log_{6} |x| - \log_{6} 6^{2} \qquad \left(x^{2}-2x > 0 \right)$$

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$$\log_{6} \sqrt{x^{2}-2x} < \log_{6} (x) - \log_{6} (x)$$

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