



 $\mathbf{556} \quad 3 \cdot 2^x + 2^{x+1} = 19$ 

 $\log 19 - \log 5$ log2

$$3 \cdot 2^{\times} + 2^{\times} \cdot 2 = 19$$

$$5 \cdot 2^{\times} = 19$$

$$5 \cdot 2^{\times} = 19$$
 $2^{\times} = \frac{19}{5}$ 

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 $2^{\times} = 2^{\times} = 2^{\times$ 

$$X = \log_2 \frac{19}{5}$$

$$log_2 = \frac{19}{5} = log_3 = log_5 = log_2$$

$$2; \frac{\log 5 - \log 28}{\log 2}$$

$$t = 2^{\times}$$
  $7t + \frac{5}{t} = \frac{117}{4}$   $28t^2 + 20 = 117t$ 

$$28t^2 - 117t + 20 = 0$$

$$\Delta = 117^2 - 20.28.4 = 11449 = 107^2$$

$$t = \frac{117 \pm 107}{56} = \frac{5}{28}$$

$$\frac{56}{56} = \frac{5}{28}$$

$$\frac{224}{56} = 4$$

$$t = \frac{5}{28}$$
  $\forall$   $t = 4$ 

$$2^{\times} = \frac{5}{28} \quad V \quad 2^{\times} = 4$$

$$X = l_{\infty} \frac{5}{28}$$
  $V$   $X = 2$ 

$$x = \frac{\log \frac{5}{28}}{\log 2}$$

$$x = \frac{\log 5 - \log 28}{\log 2} \quad \text{v} \quad x = 2$$

$$3^{2x} - 4 \ge 0$$

 $\left[x \ge \frac{\log 4}{2\log 3}\right]$