

1.27  
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$$\log(1+2^x) - \log 6 = x \log 5 - x$$

$$\log\left(\frac{1+2^x}{6}\right) = \log 5^x - \log 10^x$$

$$\log\left(\frac{1+2^x}{6}\right) = \log\left(\frac{5^x}{10^x}\right)$$

$$\frac{1+2^x}{6} = \left(\frac{1}{2}\right)^x = \frac{1}{2^x}$$

$$\frac{1+t}{6} = \frac{1}{t}$$

$$2^x = t \quad (t > 0)$$

$$t^2 + t - 6 = 0 \rightarrow t = 2, -3 \rightarrow 2^x = -3, \quad 2^x = 2$$

$(x=1)$

המשוואה  
 $x \in \mathbb{R} \leftarrow 1+2^x > 0$