

3.84
k5

$$3^{\log_3^2 x + \log_3 x} < 6$$

$$x = 3^t \leftarrow t = \log_3 x$$

x > 0 : תנאי הפתרון
/NO/

$$3^{t^2} + (3^t)^t < 6$$

$$2 \cdot 3^{t^2} < 6 : /2$$

$$3^{t^2} < 3^1 \rightarrow$$

$$t^2 < 1 \rightarrow -1 < t < 1$$

$$\boxed{\frac{1}{3} < x < 3}$$

$$\leftarrow -1 < \log_3 x < 1$$