

$$3^{2x} - 10 \cdot 3^x + 9 < 0$$

$$\text{Pongo: } 3^x = t \quad \Rightarrow \quad t^2 - 10t + 9 < 0 \quad \Rightarrow \quad 1 < t < 9 \quad \Rightarrow \quad 0 < x < 2$$