

1.83
75

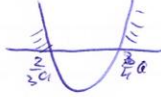
$$\frac{1}{25^x} - \frac{17}{12} a \cdot 5^{-x} + \frac{a^2}{2} - 1 > 1$$

$$t = 5^{-x} \text{ жог}$$

$$t^2 - \frac{17}{12} ta + \frac{a^2}{2} > 0$$

$$12t^2 - 17ta + 6a^2 > 0$$

$$t = \frac{3}{4}a, \quad t = \frac{2}{3}a$$



$$5^{-x} < \frac{2}{3}a \quad \text{или} \quad \frac{3}{4}a < 5^{-x}$$

$$\frac{1}{5} < 5^{-x} < 1 \Rightarrow$$

$$a < \frac{2}{3}$$

$$5^{-x} < 5^{-1}$$

$$\Rightarrow x > 1$$

$$5^{-x} < 5^{-x}$$

$$a < \frac{4}{5}$$

$$\Rightarrow x > 1$$

$$a < \frac{4}{5}$$

$$1 < \frac{2}{3}a \quad \text{или} \quad \frac{3}{4}a < \frac{1}{5}$$

$$\Rightarrow a < \frac{3}{4}$$

$$\Rightarrow a < \frac{4}{15}$$

$$\boxed{\frac{1}{2} < a \quad \text{или} \quad a < \frac{4}{15}}$$