

1.41
1

$$\begin{cases} \log x - \log y = 1 \\ 2^{\log x} \cdot 3^{\log y} = \frac{1}{18} \end{cases}$$

maximal
 $x, y > 0$

$$\log y = t \quad \log x = w \quad | \text{in } (1)$$

$$\begin{cases} w - t = 1 \\ 2^w \cdot 3^t = \frac{1}{18} \end{cases}$$

$$w = 1 + t$$
$$2^{1+t} \cdot 3^t = \frac{1}{18} \quad : \text{optimal element?}$$

$$2 \cdot 2^t \cdot 3^t = \frac{1}{18} \quad | :2$$

$$6^t = \frac{1}{36} = 6^{-2}$$

$$\boxed{t = -2} \quad \boxed{w = -1}$$

$$\log x = -1 \rightarrow x = \frac{1}{10}$$
$$\log y = -2 \rightarrow y = \frac{1}{100}$$