

$$\begin{aligned}
 6. \quad \frac{3 \log_2 288}{5 \log_3 2 + 2} &= \frac{3 \frac{\log_2 288}{\log_3 27}}{5 \log_3 2 + 2} = \frac{3 \frac{\log_3 3 \cdot 96}{3}}{5 \log_3 2 + 2} = \frac{3 \cdot \frac{\log_3 3 \cdot 96}{3}}{5 \log_3 2 + 2} \\
 &= \frac{\log_3 3 \cdot 96}{5 \log_3 2 + 2} = \frac{\log_3 9 + \log_3 32}{\log_3 2^5 + 2} = \frac{2 + \log_3 32}{\log_3 32 + 2} \quad \checkmark \\
 &\quad \text{(сравни)}
 \end{aligned}$$

$$\begin{aligned}
 &= \frac{415}{10} = \frac{83}{2} = \frac{415}{10} \\
 &= \frac{636}{15} = \frac{212}{5} = \frac{424}{10} \\
 &= \frac{1652}{40} = \frac{413}{10} = \frac{413}{10}
 \end{aligned}$$

Учен, что в IV случае генеральне.

$$120 \cdot \frac{413}{70} = 4956 \text{ руб.}$$