

Решите

1. $\log_x(x+2) - \log_x(x^2) \geq 0$

2. $\log_{0,25x^2}\left(\frac{x+6}{4}\right) \leq 1$

3. $\frac{10^x - 25 \cdot 2^x - 2 \cdot 5^x + 50}{5x - x^2 - 4} \geq 0$

4. $\log_{x+7}(x^2 + 4) \geq -\frac{1}{\log_x \sqrt{x+7}} + \log_{x+7}(x^2 - 1)$

5. $(4^{x^2-x-6} - 1) \log_{\frac{1}{4}}(4^{x^2+2x+2} - 3) \leq 0$