

$$\begin{array}{ll}
 2.3.1. \text{ а) } \begin{cases} 1 \leq \operatorname{tg}(3x + 15^\circ) \leq \sqrt{3}, \\ 60^\circ < x < 80^\circ; \end{cases} & \text{б) } \begin{cases} -\frac{1}{2} \leq \cos(2x + 40^\circ) \leq 0, \\ 200^\circ < x < 240^\circ; \end{cases} \\
 \text{в) } \begin{cases} \frac{1}{2} \leq \sin(5x + 10^\circ) \leq \frac{\sqrt{2}}{2}, \\ 60^\circ < x < 90^\circ; \end{cases} & \text{г) } \begin{cases} \frac{1}{\sqrt{3}} \leq \operatorname{ctg}(4x + 20^\circ) \leq \sqrt{3}, \\ 40^\circ < x < 60^\circ; \end{cases} \\
 \text{д) } \begin{cases} -\frac{\sqrt{3}}{2} \leq \cos(3x + 18^\circ) \leq \frac{1}{2}, \\ 120^\circ < x < 170^\circ. \end{cases} & 
 \end{array}$$

$$\begin{array}{ll}
 2.3.2. \text{ а) } \begin{cases} 2^{\operatorname{tg}(x+135^\circ)} \leq 2, \\ -30^\circ < x < 100^\circ; \end{cases} & \text{б) } \begin{cases} 3^{\sin(x+20^\circ)} \leq \sqrt{3}, \\ 100^\circ < x < 400^\circ; \end{cases} \\
 \text{в) } \begin{cases} 5^{\cos(x+30^\circ)} \leq 1, \\ -350^\circ < x < -100^\circ; \end{cases} & \text{г) } \begin{cases} 0,5^{\operatorname{ctg}(x+35^\circ)} \leq 2, \\ -40^\circ < x < 120^\circ; \end{cases} \\
 \text{д) } \begin{cases} 6^{\sin(x+40^\circ)} \leq \frac{1}{\sqrt{6}}, \\ -200^\circ < x < 0^\circ. \end{cases} & 
 \end{array}$$

$$\begin{array}{ll}
 2.3.3. \text{ а) } \begin{cases} \frac{1}{1 - \sin x} \geq 2, \\ 0^\circ \leq x \leq 160^\circ; \end{cases} & \text{б) } \begin{cases} \frac{1}{\cos x + 1} \geq 1, \\ 60^\circ \leq x \leq 200^\circ; \end{cases} \\
 \text{в) } \begin{cases} \frac{1}{2 \cos x - 1} \leq -1, \\ -20^\circ \leq x \leq 100^\circ; \end{cases} & \text{г) } \begin{cases} \frac{3}{2 \sin x + 1} \geq 1, \\ 30^\circ \leq x \leq 270^\circ; \end{cases} \\
 \text{д) } \begin{cases} \frac{1}{\cos x + 1} \geq 2, \\ 90^\circ \leq x \leq 270^\circ. \end{cases} & 
 \end{array}$$





