1. Find all $x \in \mathbb{R}$ solving the inequation

$$\frac{x-1}{3x^2+5x-2} \geq 0.$$

2. With given parameter $c \in \mathbb{R}$ find all solutions $x \in \mathbb{R}$ of the inequation

$$c \cdot (1 - \log x) \geq 1.$$

3. Sketch the graph of the function

$$f(x) = 1 - \left|\operatorname{tg} 2x\right|.$$