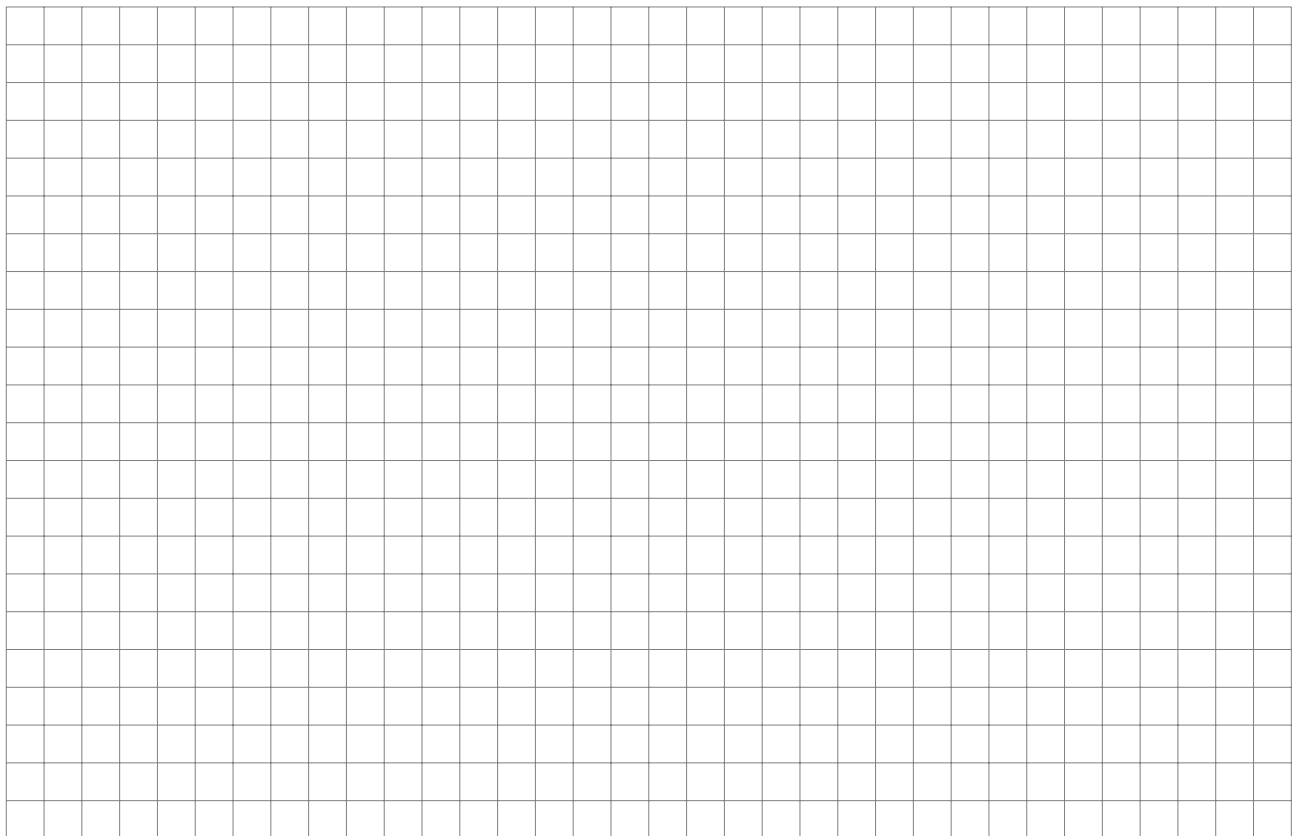


Name:

Group 1

Result:

**1.***(4 points)*(a) Sketch  $y = |x + 2| - |2x - 3|$ .(b) Solve  $|x + 2| - |2x - 3| = 2$ 

**2.**

(a) Find the sequence of transformations that maps the graph  $\frac{1}{x}$  onto the graph of  $\frac{2x-6}{x-1}$ . *(6 points)*

(b) Solve:

$$\frac{2x-6}{x-1} \geq 6-x$$

(c) Sketch  $y = \frac{2|x|-6}{|x|-1}$ .

