

## HOMEWORK 1

Solve the following inequations in the real domain.

(1)

$$\frac{x-3}{x+9} > \frac{x+7}{x+2}.$$

(2)

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

(3)

$$|x+2| + |x| > |x-1|.$$

(4)

$$|x+3| + |2x+2| > |3x|.$$