

Name:
Result:

1.

(3 points)

Let:

$$A = [-2, 3[\quad B =]0, 4] \quad C =]1, \infty[$$

Find:

(a) $A \cap B$

(b) $B \cup C$

(c) $C - A$

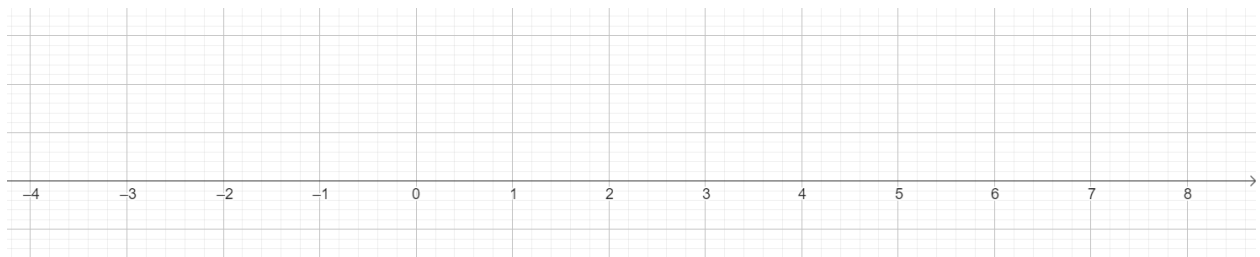
2.

(2 points)

Solve the following inequality:

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

Represent the set of solution on the number line:



3.*(5 points)*

Solve the following inequalities:

(a) $2|x - 2| - 3 < 5$

(b) $11 - 2|2x + 3| < 1$

Let the set of solutions to (a) and (b) be denoted by A and B respectively. Find:

(i) $A \cap B$

(ii) $A \cup B$

(iii) $A - B$