

Name:
Result:

1.

(3 points)

Let:

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

Find:

(a) $A \cap B$

(b) $B \cup C$

(c) $C - A$

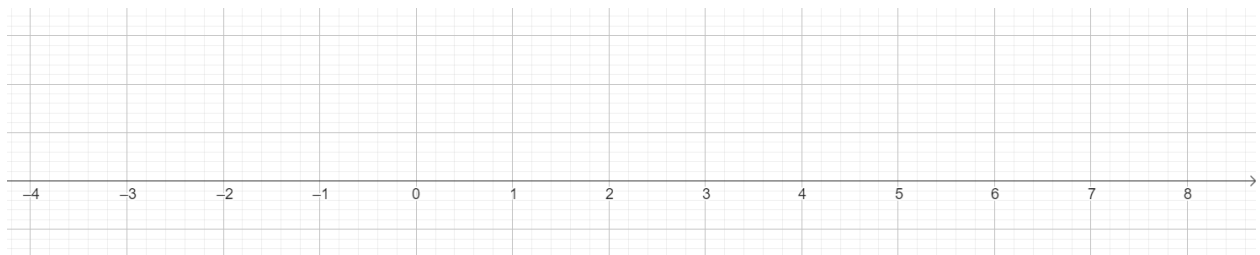
2.

(2 points)

Solve the following inequality:

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

Represent the set of solution on the number line:



3.*(5 points)*

Solve the following inequalities:

(a) $3|x + 2| - 5 < 4$

(b) $7 - 2|2x - 1| < 1$

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) $A - B$