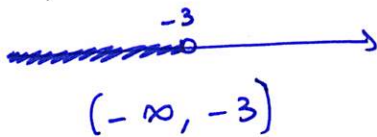


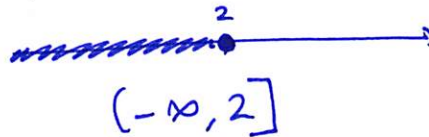
Reminder on inequalities - Worksheet

1. Represent the following inequalities on a number line and as an interval.

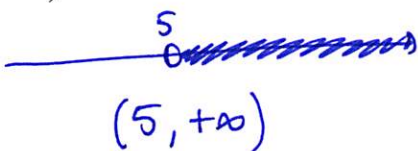
a) $x < -3$



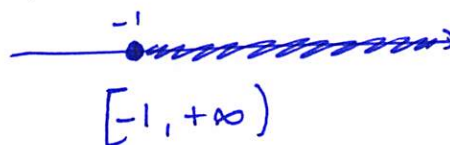
b) $x \leq 2$



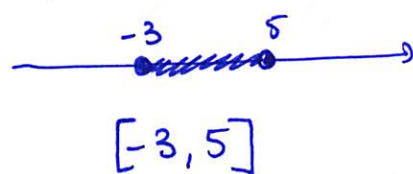
c) $x > 5$



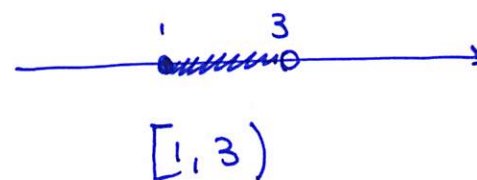
d) $x \geq -1$



e) $-3 \leq x \leq 5$



f) $1 \leq x < 3$



2. Solve the following inequalities.

a) $2x - 5 > x + 2$

$$2x - x > 5 + 2$$

$$x > 7$$

b) $3(x - 5) \geq 5x - 3$

$$3x - 15 \geq 5x - 3$$

$$3x - 5x \geq 15 - 3$$

$$-2x \geq 12$$

$$x \leq -6$$

c) $1 - 2(x + 3) < 2x + 5$

$$1 - 2x - 6 < 2x + 5$$

$$-2x - 2x < 5 + 6 - 1$$

$$-4x < 10$$

$$x > -\frac{5}{2}$$

d) $\frac{1}{3}x + 2 \leq \frac{2}{3}x + 1$

$$x + 6 \leq 2x + 3$$

$$x - 2x \leq -6 + 3$$

$$-x \leq -3$$

$$x \geq 3$$

3. Represent the following intervals on a number line.

a) $[5; 10]$



b) $[2; 3)$



c) $(-3; 5]$



d) $(3; \infty)$

