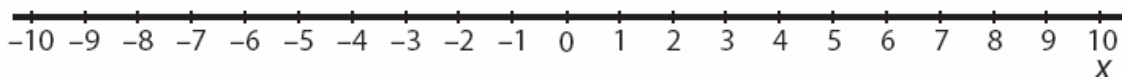


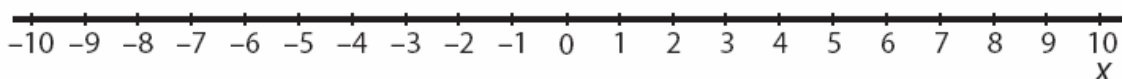
Name:

QUIZ – MATH GRADE 11 SL

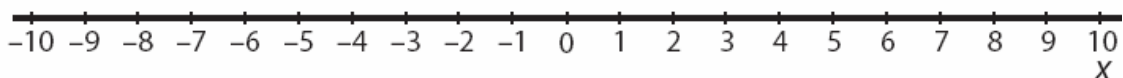
1. (4%) Show the following interval on the number line: $x \in (-2, 5]$



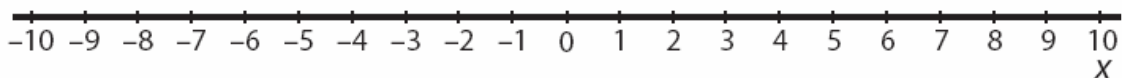
2. (4%) Show the following interval on the number line: $x > 2$



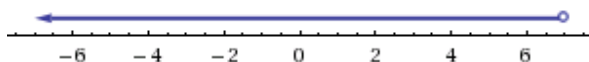
3. (4%) Show the following interval on the number line: $x \in [-6, -1[$



4. (4%) Show the following interval on the number line: $-\infty < x \leq 0$



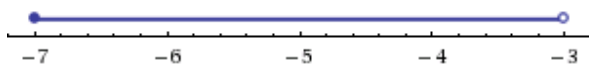
5. (4%) Write down in 2 different notations the interval on the number line:



(I) _____

(II) _____

6. (4%) Write down in 2 different notations the interval on the number line:



(I) _____

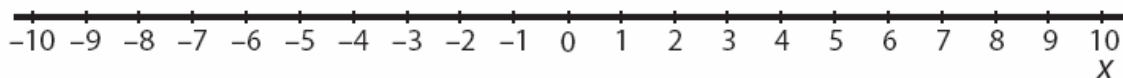
(II) _____

7. (40%) Solve the inequalities:

a. (8%) $-3x + 1 \leq 7$

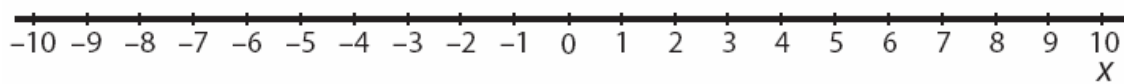
b. (20%) $\frac{3x+1}{2} < \frac{x}{3} - \frac{7}{6}$

- c. (6%) Sketch **both** inequalities on the number line:



- d. (6%) Write down their intersection: _____

8. (18%) Solve the inequality: $-6 < \frac{4-6x}{4} < 10$ and show it on the number line:



9. (18%) Solve the inequality $\frac{x}{2} + 4 < \frac{x}{6} + x$ and show it on the number line:

