1. Tina's height is 112cm, to the nearest centimeter. If the measurement is given as l, then:

   A. $111.5cm \leq l < 112.5cm$ B. $111.5cm < l < 112.5cm$

   C. $111.5cm \leq l \leq 112.5cm$ D. $111.5cm < l \leq 112.5cm$

2. Which of the following graphs given below represents the inequality: $\{X: -3 < x \leq 1, x \in R\}$?
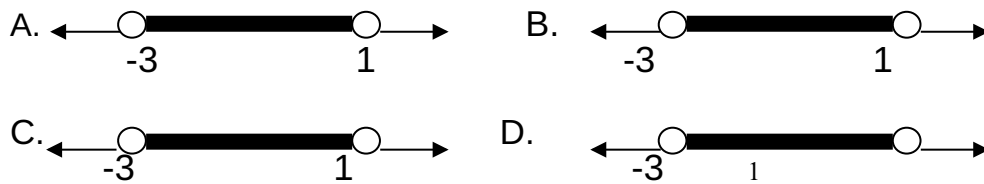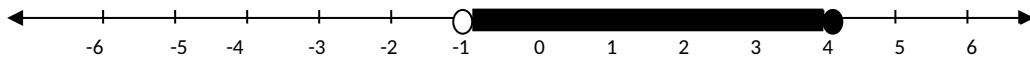

  3. Which pair of points will lie on a horizontal line?

   A. $\{(3, 3), (4, 3)\}$ B. $\{(3, 2), (2, 3)\}$

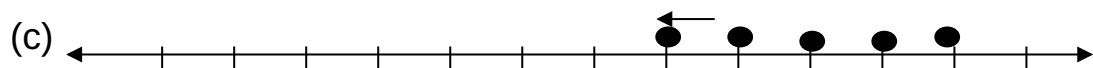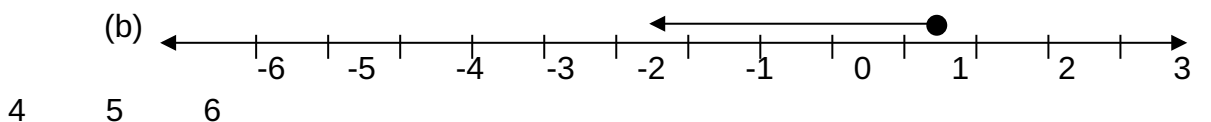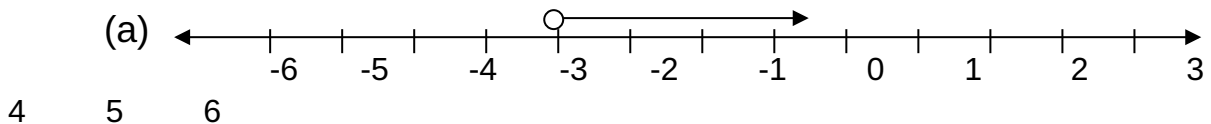   C. $\{(2, 4), (2, 5)\}$ D. $\{(-3, 3), (3, -3)\}$

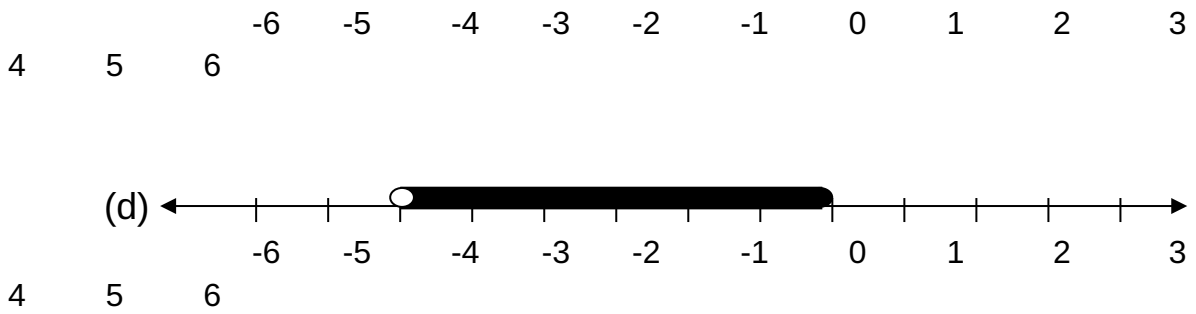4. Solve $-3x + 2 > 5$, $x \in R$, and show the solution on a number line.

5. Which of the following is true about the set that is shown by the diagram given below?

   A. $\{x : -1 > x \geq 4, x \text{ e } R\}$

   B. $\{x : -1 < x \leq 4, x \text{ e } R\}$

   C. $\{x : -1 \leq x < 4, x \text{ e } R\}$

   D. $\{x : -1 < x \leq 4, x \text{ e } R\}$

6. Describe the following sets in set builder notation.

  (a)

4   5   6

  (b)

4   5   6

  (c)

| -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 |

4   5   6

(d) ← + + ○━━━━━━━ + + + + + →

| -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 |

4   5   6

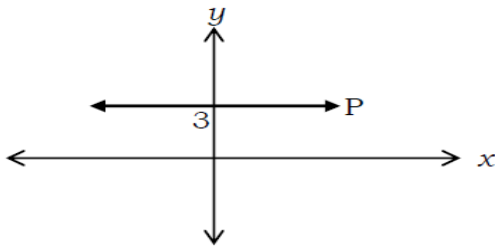7. Which in equation is represented by the graph shown below?
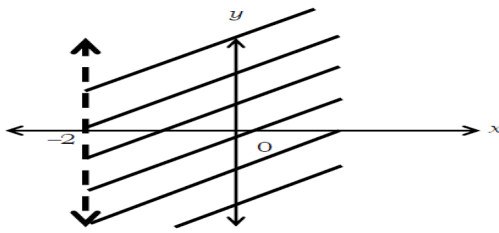
A. $x \geq -2$ B. x 2
C. $x \leq 2$ D. x 2

8. What is the equation of the horizontal line P drawn below?
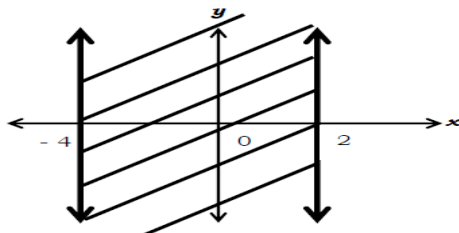

9. Which of the following equation represents a line which is parallel to the y axis?

A. $y > 4$ B. $y = 4$ C. $x > 4$ D. $x = 4$

10 draw the graph of the inequality
$\{(x, y): -2 < y \leq 3\}$

11. Which **in-equation** is represented by the graph shown below?

2

A. $-4 \le x < 2$ B. $-4 < x \le 2$

C. $-4 \le x \le 2$ D. $-4 < x < 2$

12 Which of the following graph passes through the **origin**?

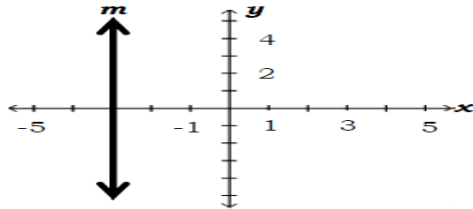A. $y = -2$ B. $y = 0$ C. $x = 1$ D. $x = 2$

13. The equation of line **m** shown below is

A. $y = -3$ B. $x = -3$ C. $y = 3$ D. $x = 3$

14. List all the integers which satisfy the in-equation $-2 \le x < 2$

15. The line parallel to the x-axis and passing through the point (1, 2) has the equation

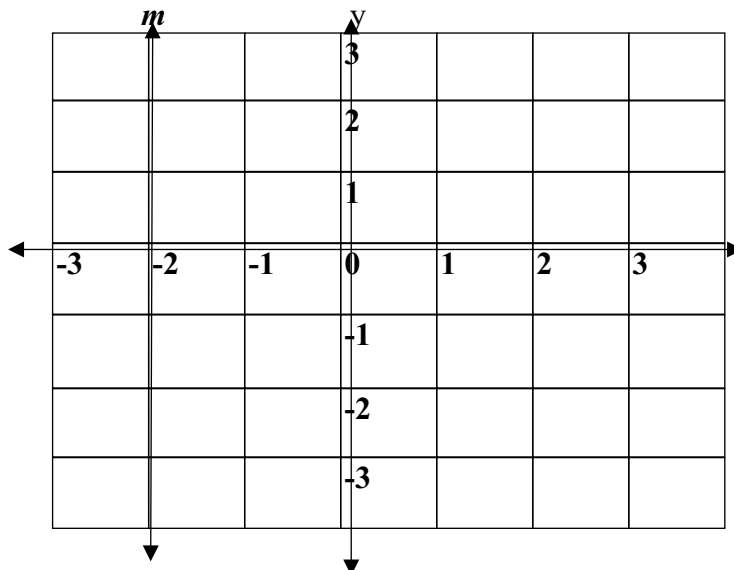A. $x = 1$ C. $y = 1$

B. $x = 2$ D. $y = 2$

16. Consider the graph given below.

a)   Is line **m** a horizontal or a vertical line?

b)   State the equation of line **m** drawn above.

3