**Drawing Graphs** 

Α.	Choose	the	Correct	Answer:

- 1. To draw the graph of y = 2x, you need at least:
  - a) 1 pointb) 2 pointsc) 3 pointsd) 4 points

# 2. The graph of a linear equation in two variables is always a:

- a) Parabola b) Curve
- c) Straight line d) Circle

#### 3. The graph of the equation x = 3 is a line:

- a) Parallel to the X–axis b) Parallel to the Y–axis
- c) Passing through origin d) Diagonal line

## 4. The graph of the equation y = 5 is a:

- a) Line parallel to X–axis b) Line parallel to Y–axis
- c) Slanting line d) Circle

#### 5. To plot the graph of y = x + 2, we need to find:

- a) The value of x for each y
- b) The value of y for each x
- c) The value of both x and y randomly
- d) Only intercepts

## **B. Write the Missing Terms to Complete the Sentences:**

- 1. The graph of a linear equation is a \_\_\_\_\_ line
- 2. To plot a graph, we find at least \_\_\_\_\_ points
- 3. The graph of x = a is a line \_\_\_\_\_ to Y-axis
- 4. The graph of y = b is a line \_\_\_\_\_ to X–axis
- 5. Points must be joined with a \_\_\_\_\_ line while drawing graphs of linear equations

## C. Figure out the answers to these questions:

- 1. Draw the graph of the equation y = 2x
- 2. Draw the graph of the line x = 4
- 3. Plot the graph of y = x + 1
- 4. Draw the graph of the equation y = 3
- 5. Draw the graph for x = -2 and describe it

#### D. Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. The graph of a linear equation is always a straight line.
- 2. The graph of y = 5 is a line parallel to X-axis.
- 3. The graph of x = 2 is parallel to the Y-axis.
- 4. A single point is enough to draw a straight line.
- 5. The equation x + y = 0 passes through the origin.

#### E. Challenge yourself with these questions:

- 1. Draw the graph of y = -x
- 2. Draw the graph of x + y = 4
- 3. Draw the graph of y = -2
- 4. Draw the graph of x = -5
- 5. Draw the graph of y = x 3