Exercise 1.4

- 1. Draw the graph of the line x 2y = 3. From the graph, find the coordinates of the points when (i) x = -5, (ii) y = 0.
- 2. Draw the graph of the following equations:

$$(i) 3x - y = 5$$

(ii)
$$3x - 4y - 12 = 0$$

- 3. Draw the graph of the equation 2x + 3y 6 = 0 and determine from the graph whether x = 3, y = 0 is a solution or not. Also from the graph find the value of x when y = 4.

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- 4. Draw the graph of each of the following system of linear equations and find whether each of these systems has a unique solution or not.

(i)
$$3x + y + 1 = 0$$

 $2x - 3y + 8 = 0$

$$(ii) x + y = 3$$
$$2x + 5y = 12$$

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- 5. Use single graph paper, draw the graph of each of the following equations y = x, y = -x and 2x + 3y = 6. Shade the triangle formed by these lines.
- **6.** Use a single graph paper and draw the graph of the following equations: 2y x = 8, 5y x = 14, y 2x = 1. Obtain the vertices of the triangle so obtained.

Answers

1. (i) When x = -5, y = -4

- (ii) When y = 0, x = 3
- 3. Yes; x = -3 4. (i) Yes; x = -1, y = 2 (ii) Yes; x = 1, y = 2
- **6.** (1, 3), (-4, 2), (2, 5)