

EduSahara™ Learning Center Assignment**Grade : Class IX, SSC****Chapter : Linear Equation in Two variables****Name : Linear Equations Miscellaneous**

1. Which of the following is a linear equation in two variable?

(i) $(-x - 7) = 0$

(ii) $(-48x^2 - 8xy - 24x + 56y^2 + 24y) = 0$

(iii) $(5x - 4y + z) = 0$

(iv) $(x - 2y + 7) = 0$

(v) $(-8x^2 - 22x + 21) = 0$

2. Which of the following is a linear equation in two variable?

(i) $(x + 7) = (7x + 4)$

(ii) $(-12x^2 + 28xy + 40x - 15y^2 - 24y + 63) = 0$

(iii) $(-16x^2 - 58x + 63) = (-6x + 2)$

(iv) $(-2x - 4y - 2) = (9x - 9y - 3)$

(v) $(-8x + 3y + 3z + 4) = (4x + 6y - 5z - 8)$

3. The linear equation $(-6x + 5y + 6) = (6x - 6y - 3)$ is equivalent to

(i) $(-12x + 11y + 9) = 0$

(ii) $(-11x + 11y + 9) = 0$

(iii) $(-6x + 5y + 6) = (6x - 8y - 3)$

(iv) $(-13x + 11y + 9) = 0$

(v) $(-6x + 5y + 6) = (6x - 3y - 3)$

4. The value of x in terms of other variables and constant in $(2x + 7y + 5) = (-4x - 8y + 9)$ is

(i) $x = (-\frac{5}{2}y + \frac{2}{3})$ (ii) $x = (-\frac{9}{4}y + \frac{2}{3})$ (iii) $x = (-\frac{5}{2}y)$

$$(iv) \quad x = \left(-3y + \frac{2}{3} \right) \quad (v) \quad x = \left(-\frac{5}{2}y + \frac{4}{3} \right)$$

The value of y in terms of other variables and constant in
5.

$$(5x - 5y) = (-3x - 3y + 8) \text{ is}$$

$$(i) \quad y = (4x - 4) \quad (ii) \quad y = (5x - 4) \quad (iii) \quad y = (3x - 4)$$

$$(iv) \quad y = (4x - 1) \quad (v) \quad y = (4x - 7)$$

6. Which of the following lines do not pass through the origin?

$$(i) \quad (3x + 4y + 21) = 0$$

$$(ii) \quad (2x - 4y) = 0$$

$$(iii) \quad (8x + 4y) = 0$$

$$(iv) \quad (-3x + 3y) = 0$$

$$(v) \quad (-7x - 4y) = 0$$

The equation of the line passing through the origin and
7. having a slope $m \neq 0$ is

$$(i) \quad y = 0 \quad (ii) \quad x = 0$$

$$(iii) \quad x = my + c \quad (iv) \quad y = mx$$

$$(v) \quad y = mx + c$$

8. The equation of the line with slope $m \neq 0$ and y-intercept $c \neq 0$ is

$$(i) \quad x = my + c \quad (ii) \quad x = 0$$

$$(iii) \quad y = 0 \quad (iv) \quad y = mx$$

$$(v) \quad y = mx + c$$

9. The coordinates of the origin are

$$(i) \quad (1, 0) \quad (ii) \quad (0, 0) \quad (iii) \quad (5, 0) \quad (iv) \quad (1, 1) \quad (v) \quad (0, 4)$$

10. The point of intersection of x-axis and y-axis

$$(i) \quad (1, 0) \quad (ii) \quad (1, 1) \quad (iii) \quad (0, 8) \quad (iv) \quad (7, 0) \quad (v) \quad (0, 0)$$

11. Write the given equation $(-5x + 9y + 33) = 0$ in $y = mx + c$ form

$$(i) \quad y = \left(\frac{5}{9}x - \frac{11}{3} \right) \quad (ii) \quad y = \left(\frac{5}{11}x - \frac{11}{3} \right)$$

$$\frac{5}{13} \quad \frac{13}{5}$$

$$(iii) \ y = (\bar{9}x - \bar{3}) \quad (iv) \ y = (\bar{9}x - 3)$$

$$(v) \ y = (\frac{5}{9}x - \frac{11}{3})$$

12. Write the given equation $y = (-\frac{6}{7}x + \frac{5}{7})$ in $ax + by + c = 0$ form

$$(i) \ (\frac{6}{7}x + y - \frac{5}{7}) = 0 \quad (ii) \ (\frac{2}{3}x + y - \frac{5}{7}) = 0$$

$$(iii) \ (\frac{6}{5}x + y - \frac{5}{7}) = 0 \quad (iv) \ (\frac{6}{7}x - y - \frac{5}{7}) = 0$$

$$(v) \ (\frac{6}{7}x + 3y - \frac{5}{7}) = 0$$

Assignment Key

- 1) (iv)
- 2) (iv)
- 3) (i)
- 4) (i)
- 5) (i)
- 6) (i)
- 7) (iv)
- 8) (v)
- 9) (ii)
- 10) (v)
- 11) (v)
- 12) (i)