



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

- (i)  $(54x^2 - 51x - 14) = 0$  (ii)  $(7x + 7y - 4z + 5) = 0$  (iii)  $(8x^2 + 44xy - 2x + 56y^2 - 19y - 10) = 0$   
(iv)  $(6x + 1) = 0$  (v)  $(2x + 7y - 4) = 0$

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

- (i)  $(4x^2 - 23x + 28) = (-5x + 9)$  (ii)  $(8x^2 - 4xy - 12x - 24y^2 - 74y - 56) = 0$  (iii)  $(x + 1) = (-8x - 5)$   
(iv)  $(6x - 2y - 9z + 2) = (8x + 9y + 7z + 6)$  (v)  $(-2x - 8y + 8) = (3x + 6y + 3)$

3. The linear equation  $(x - 2y + 6) = (-7x - y + 5)$  is equivalent to

- (i)  $(x - 2y + 6) = (-7x - 4y + 5)$  (ii)  $(9x - y + 1) = 0$  (iii)  $(7x - y + 1) = 0$  (iv)  $(x - 2y + 6) = (-7x + 2y + 5)$   
(v)  $(8x - y + 1) = 0$

4. The value of  $x$  in terms of other variables and constant in  $(3x - 7y + 1) = (-6x + 6y - 4)$  is

- (i)  $x = (\frac{13}{9}y - \frac{1}{3})$  (ii)  $x = (\frac{13}{9}y - \frac{7}{9})$  (iii)  $x = (\frac{13}{9}y - \frac{5}{9})$  (iv)  $x = (\frac{11}{7}y - \frac{5}{9})$  (v)  $x = (\frac{15}{11}y - \frac{5}{9})$

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

- (i)  $y = (2x - \frac{18}{7})$  (ii)  $y = (x - \frac{16}{7})$  (iii)  $y = (2x - 2)$  (iv)  $y = (3x - \frac{16}{7})$  (v)  $y = (2x - \frac{16}{7})$

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

- (i)  $(3x + 8y + 62) = 0$  (ii)  $(4x + 2y) = 0$  (iii)  $(-7x + 2y) = 0$  (iv)  $(-4x - 7y) = 0$  (v)  $(x - 6y) = 0$

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

- (i)  $y = mx$  (ii)  $x = my + c$  (iii)  $y = 0$  (iv)  $y = mx + c$  (v)  $x = 0$

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

- (i)  $y = mx$  (ii)  $y = 0$  (iii)  $y = mx + c$  (iv)  $x = my + c$  (v)  $x = 0$

9. The coordinates of the origin are

- (i)  $(0, 6)$  (ii)  $(1, 0)$  (iii)  $(0, 0)$  (iv)  $(1, 1)$  (v)  $(5, 0)$

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

- (i)  $(1, 1)$  (ii)  $(1, 0)$  (iii)  $(0, 7)$  (iv)  $(0, 0)$

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

- (i)  $y = (-4x)$  (ii)  $y = (-x)$  (iii)  $y = 2x$  (iv)  $y = (-2x)$  (v)  $y = 0$

12. Write the given equation  $y = \left(\frac{6}{5}x + \frac{42}{5}\right)$  in  $ax + by + c = 0$  form

(i)  $\left(-\frac{4}{3}x + y - \frac{42}{5}\right) = 0$  (ii)  $\left(-\frac{6}{5}x + y - \frac{42}{5}\right) = 0$  (iii)  $\left(-\frac{8}{7}x + y - \frac{42}{5}\right) = 0$  (iv)  $\left(-\frac{6}{5}x + 3y - \frac{42}{5}\right) = 0$

(v)  $\left(-\frac{6}{5}x - 2y - \frac{42}{5}\right) = 0$

## Assignment Key

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1) (v)

2) (v)

3) (v)

4) (iii)

5) (v)

6) (i)

7) (i)

8) (iii)

9) (iii)

10) (iv)

11) (ii)

12) (ii)