EduSahara™ Assignment

Name : Linear Equations Miscellaneous

Chapter : Linear Equation in Two variables

Grade : SSC Grade IX

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

   (i) $(10x^2+18x-4)=0$ (ii) $(-4x-8y-3)=0$ (iii) $(16x^2-28xy+28x-8y^2-56y)=0$

   (iv) $(5x-6y+9z-1)=0$ (v) $(-3x-3)=0$

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

   (i) $(-8x^2+22x+21)=(7x-6)$ (ii) $(-6x-5y+7z-4)=(4x-7y-2z+4)$ (iii) $(-6x+9y-9)=(4x-2y+9)$

   (iv) $(-3x-8)=(-x-5)$ (v) $(-40x^2+31xy+67x+35y^2-29y-28)=0$

3. The linear equation $(-6x+y-9)=(-9x+5y-4)$ is equivalent to

   (i) $(-6x+y-9)=(-9x+7y-4)$ (ii) $(2x-4y-5)=0$ (iii) $(4x-4y-5)=0$ (iv) $(3x-4y-5)=0$

   (v) $(-6x+y-9)=(-9x+2y-4)$

4. The value of x in terms of other variables and constant in $(-4x-3y-6)=(-2x-6y+5)$ is

   (i) $x=(\frac{3}{2}y-\frac{11}{2})$ (ii) $x=(\frac{5}{4}y-\frac{11}{2})$ (iii) $x=(\frac{3}{2}y-\frac{9}{2})$ (iv) $x=(2y-\frac{11}{2})$ (v) $x=(\frac{3}{2}y-\frac{13}{2})$

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

   (i) $y=(x+\frac{1}{2})$ (ii) $y=(3x+\frac{1}{2})$ (iii) $y=(2x+\frac{3}{2})$ (iv) $y=(2x-\frac{1}{2})$ (v) $y=(2x+\frac{1}{2})$

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

   (i) $(-8x-7y)=0$ (ii) $(-4x+7y)=0$ (iii) $(x+2y)=0$ (iv) $(4x-8y)=0$ (v) $(-3x+10y+19)=0$

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) $x=0$ (v) $y=mx+c$

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

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

9. The coordinates of the origin are

   (i) $(1,1)$ (ii) $(0,0)$ (iii) $(0,2)$ (iv) $(8,0)$ (v) $(1,0)$

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

    (i) $(8,0)$ (ii) $(0,0)$ (iii) $(0,2)$ (iv) $(1,0)$ (v) $(1,1)$

11. Write the given equation $(-3x+3y+21)=0$ in $y=mx+c$ form

    (i) $y=(x-10)$ (ii) $y=(-7)$ (iii) $y=(2x-7)$ (iv) $y=(x-5)$ (v) $y=(x-7)$

12. Write the given equation $y=(-\frac{2}{5}x+\frac{1}{5})$ in $ax+by+c=0$ form

(i) $(\frac{2}{5}x+3y-\frac{1}{5})=0$ (ii) $(\frac{2}{3}x+y-\frac{1}{5})=0$ (iii) $(\frac{2}{7}x+y-\frac{1}{5})=0$ (iv) $(\frac{2}{5}x+y-\frac{1}{5})=0$ (v) $(\frac{2}{5}x-2y-\frac{1}{5})=0$

Assignment Key

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