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) $(9x-5)=0$ (ii) $(40x^2+9xy+3x-10y^2+7y-1)=0$ (iii) $(2x-7y-4z+7)=0$ (iv) $(-54x^2+21x+24)=0$

   (v) $(-9x+3y-5)=0$

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

   (i) $(8x+8)=(-7x+1)$ (ii) $(-5x+9y-7)=(x-8y-4)$ (iii) $(-24x^2-45x-21)=(4x+1)$

   (iv) $(5x-y-9z-2)=(-8x+7y+4z-9)$ (v) $(12x^2+24xy+41x+12y^2+41y+35)=0$

3. The linear equation $(-9x-8y+2)=(-x+7y+2)$ is equivalent to

   (i) $(-7x-15y)=0$ (ii) $(-9x-8y+2)=(-x+9y+2)$ (iii) $(-9x-8y+2)=(-x+5y+2)$ (iv) $(-9x-15y)=0$

   (v) $(-8x-15y)=0$

4. The value of x in terms of other variables and constant in $(-x+6y-6)=(-8x+4y-2)$ is

   (i) $x=(-\frac{2}{7}y+\frac{6}{7})$ (ii) $x=(-\frac{2}{7}y+\frac{4}{7})$ (iii) $x=(-\frac{2}{7}y+\frac{2}{7})$ (iv) $x=(-\frac{2}{9}y+\frac{4}{7})$ (v) $x=(-\frac{2}{5}y+\frac{4}{7})$

5. The value of y in terms of other variables and constant in $(7x-4y-5)=(-9x+3y+4)$ is

   (i) $y=(\frac{16}{7}x-\frac{9}{7})$ (ii) $y=(\frac{20}{9}x-\frac{9}{7})$ (iii) $y=(\frac{12}{5}x-\frac{9}{7})$ (iv) $y=(\frac{16}{7}x-\frac{11}{7})$ (v) $y=(\frac{16}{7}x-1)$

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

   (i) $(-4x-7y)=0$ (ii) $(-4x+7y)=0$ (iii) $(2x+7y+42)=0$ (iv) $(x-3y)=0$ (v) $(3x+4y)=0$

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

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

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

9. The coordinates of the origin are

   (i) $(0,7)$ (ii) $(3,0)$ (iii) $(1,1)$ (iv) $(1,0)$ (v) $(0,0)$

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

    (i) $(1,0)$ (ii) $(3,0)$ (iii) $(1,1)$ (iv) $(0,0)$ (v) $(0,5)$

11. Write the given equation $(-11x-12y+17)=0$ in $y=mx+c$ form

    (i) $y=(-\frac{11}{10}x+\frac{17}{12})$ (ii) $y=(-\frac{11}{12}x+\frac{5}{4})$ (iii) $y=(-\frac{11}{12}x+\frac{17}{12})$ (iv) $y=(-\frac{11}{14}x+\frac{17}{12})$ (v) $y=(-\frac{11}{12}x+\frac{19}{12})$

12. Write the given equation $y=(\frac{5}{7}x+\frac{19}{7})$ in $ax+by+c=0$ form

(i) $(-\frac{5}{7}x+3y-\frac{19}{7})=0$ (ii) $(-\frac{5}{7}x+y-\frac{19}{7})=0$ (iii) $(-\frac{5}{7}x-y-\frac{19}{7})=0$ (iv) $(-x+y-\frac{19}{7})=0$

(v) $(-\frac{5}{9}x+y-\frac{19}{7})=0$

Assignment Key

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