EduSahara™ Assignment

Name : Linear Equations Miscellaneous

Chapter : Linear Equation in Two variables

Grade : SSC Grade IX

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

   (i) $(-3x-8y-4)=0$ (ii) $(56x^2-58x+12)=0$ (iii) $(14x^2-35xy+35x+21y^2-42y+21)=0$

   (iv) $(-3x+3)=0$ (v) $(-x+3y+7z+8)=0$

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

   (i) $(-2x+8y+7z-6)=(-7x-y-4z-8)$ (ii) $(-16x^2-4x+2)=(-6x-1)$ (iii) $(x-2)=(-5x-1)$

   (iv) $(x+2y+5)=(-5x-8y+3)$ (v) $(-35x^2-46xy+26x-15y^2+18y-3)=0$

3. The linear equation $(3x+5y-1)=(-2x+3y+2)$ is equivalent to

   (i) $(5x+2y-3)=0$ (ii) $(4x+2y-3)=0$ (iii) $(3x+5y-1)=(-2x+2)$ (iv) $(6x+2y-3)=0$

   (v) $(3x+5y-1)=(-2x+6y+2)$

4. The value of x in terms of other variables and constant in $(-5x+3y+1)=(-x-9y-5)$ is

   (i) $x=(3y+\frac{5}{2})$ (ii) $x=(4y+\frac{3}{2})$ (iii) $x=(2y+\frac{3}{2})$ (iv) $x=(3y+\frac{1}{2})$ (v) $x=(3y+\frac{3}{2})$

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

   (i) $y=(\frac{8}{11}x-\frac{7}{11})$ (ii) $y=(\frac{8}{9}x-\frac{7}{11})$ (iii) $y=(\frac{8}{13}x-\frac{7}{11})$ (iv) $y=(\frac{8}{11}x-\frac{9}{11})$ (v) $y=(\frac{8}{11}x-\frac{5}{11})$

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

   (i) $(3x+2y)=0$ (ii) $(6x-8y)=0$ (iii) $(-3x+10y+14)=0$ (iv) $(-2x-5y)=0$ (v) $(-2x+2y)=0$

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

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

9. The coordinates of the origin are

   (i) $(0,0)$ (ii) $(0,7)$ (iii) $(1,1)$ (iv) $(4,0)$ (v) $(1,0)$

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

    (i) $(1,1)$ (ii) $(0,6)$ (iii) $(9,0)$ (iv) $(1,0)$ (v) $(0,0)$

11. Write the given equation $(-3x-6y+3)=0$ in $y=mx+c$ form

    (i) $y=(-\frac{1}{4}x+\frac{1}{2})$ (ii) $y=(-\frac{1}{2}x+\frac{3}{2})$ (iii) $y=(-x+\frac{1}{2})$ (iv) $y=(-\frac{1}{2}x+\frac{1}{2})$ (v) $y=(-\frac{1}{2}x-\frac{1}{2})$

12. Write the given equation $y=(-\frac{4}{3}x-\frac{5}{3})$ in $ax+by+c=0$ form

(i) $(\frac{4}{3}x+y+\frac{5}{3})=0$ (ii) $(\frac{4}{3}x+3y+\frac{5}{3})=0$ (iii) $(\frac{6}{5}x+y+\frac{5}{3})=0$ (iv) $(2x+y+\frac{5}{3})=0$ (v) $(\frac{4}{3}x-y+\frac{5}{3})=0$

Assignment Key

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

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