EduSahara™ Assignment

Name : Linear Equation Concepts

Chapter : Linear Equations in One Variable

Grade : SSC Grade VIII

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

   (i) $(-5x-2)=0$ (ii) $(3x-9y+7z-8)=0$ (iii) $(24x^2-5xy+47x-14y^2-55y-21)=0$

   (iv) $(54x^2+48x-6)=0$ (v) $(-7x+4y+7)=0$

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

   (i) $(-8x-8y+7z+9)=0$ (ii) $(54x^2+27xy-6x-81y^2-9y)=0$ (iii) $(2x+2y+7)=0$ (iv) $7x=0$

   (v) $(45x^2+96x+27)=0$

3. Which of the following is a linear equation in three variable?

   (i) $(-30x^2-74x-36)=0$ (ii) $(-4x+8y-6z-6)=0$ (iii) $(4x+3)=0$ (iv) $(-8x+4y-8)=0$

   (v) $(-12x^2+2xy-6x+4y^2+11y+6)=0$

4. Which of the following is a linear equation in one variable?

   (i) $(40x^2-71xy-2x+21y^2-30y-24)=0$ (ii) $(10x^2-32x+24)=(-4x-2)$

   (iii) $(8x-6y-6z-4)=(-7x-5y-8z+4)$ (iv) $(9x+2y-9)=(-6x+9y-8)$ (v) $(-3x+1)=(-9x+7)$

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

   (i) $(6x+9y-5z-9)=(3x-2y-z-2)$ (ii) $(-6x^2-14x+40)=(5x+1)$ (iii) $(x-6y+3)=(5x-7y+4)$

   (iv) $(3x+9)=(-2x+1)$ (v) $(-36x^2-54xy-8y^2-7y+1)=0$

6. Which of the following is a linear equation in three variable?

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

   (iv) $(-x-2)=(-2x-5)$ (v) $(5x^2-19xy-8x-4y^2-10y-4)=0$

7. The linear equation $(-9x+4)=(x+8)$ is equivalent to

   (i) $(-9x+4)=(x+11)$ (ii) $(-11x-4)=0$ (iii) $(-10x-4)=0$ (iv) $(-9x-4)=0$ (v) $(-9x+4)=(x+6)$

8. The linear equation $(-5x-2y+8)=(5x-9y+4)$ is equivalent to

   (i) $(-5x-2y+8)=(5x-11y+4)$ (ii) $(-9x+7y+4)=0$ (iii) $(-11x+7y+4)=0$ (iv) $(-10x+7y+4)=0$

   (v) $(-5x-2y+8)=(5x-6y+4)$

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

(i) $(-3x-12y+12z+12)=0$ (ii) $(-3x-9y+6z+3)=(-x+6y-6z-9)$

(iii) $(-3x-9y+6z+3)=(-x-6z-9)$ (iv) $(-2x-12y+12z+12)=0$ (v) $(-x-12y+12z+12)=0$

10. The value of x in terms of other variables and constant in $(-x-8)=(8x-6)$ is

(i) $x=(-\frac{4}{9})$ (ii) $x=(-\frac{2}{9})$ (iii) $x=(-\frac{2}{7})$ (iv) $x=(-\frac{2}{11})$ (v) $x=0$

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

(i) $x=(\frac{1}{2}y+\frac{3}{2})$ (ii) $x=(y+\frac{5}{2})$ (iii) $x=(\frac{1}{2}y+\frac{7}{2})$ (iv) $x=(\frac{1}{2}y+\frac{5}{2})$ (v) $x=(\frac{1}{4}y+\frac{5}{2})$

12. The value of y in terms of other variables and constant in $(5x-8y-1)=(-6x+8y-6)$ is

(i) $y=(\frac{11}{16}x+\frac{5}{16})$ (ii) $y=(\frac{11}{14}x+\frac{5}{16})$ (iii) $y=(\frac{11}{16}x+\frac{7}{16})$ (iv) $y=(\frac{11}{16}x+\frac{3}{16})$ (v) $y=(\frac{11}{18}x+\frac{5}{16})$

13. The value of x in terms of other variables and constant in $(-x+3y-6z-3)=(2x-2y-4z-7)$ is

(i) $x=(\frac{5}{3}y+\frac{4}{3})$ (ii) $x=(3y-\frac{2}{3}z+\frac{4}{3})$ (iii) $x=(\frac{5}{3}y-\frac{2}{3}z+\frac{4}{3})$ (iv) $x=(\frac{5}{3}y-\frac{4}{3}z+\frac{4}{3})$ (v) $x=(\frac{7}{5}y-\frac{2}{3}z+\frac{4}{3})$

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

(i) $y=(-\frac{1}{2}x+\frac{7}{8}z+\frac{1}{4})$ (ii) $y=(-x+\frac{5}{8}z+\frac{1}{4})$ (iii) $y=(-\frac{1}{2}x+\frac{3}{8}z+\frac{1}{4})$ (iv) $y=(-\frac{1}{2}x+\frac{5}{8}z+\frac{1}{4})$

(v) $y=(-\frac{1}{4}x+\frac{5}{8}z+\frac{1}{4})$

15. The value of z in terms of other variables and constant in $(-x-5y+8z-5)=(-9x+8y+9z-3)$ is

(i) $z=(8x-15y-2)$ (ii) $z=(9x-13y-2)$ (iii) $z=(8x-11y-2)$ (iv) $z=(8x-13y-2)$

(v) $z=(7x-13y-2)$

16. Which of the following is a linear equation in one variable?

(i) $(x+4y+9)=0$ (ii) $(-7x+2y-9z-1)=0$ (iii) $(9x^2-9xy+3x-4y^2+16y-12)=0$

(iv) $(-32x^2-60x-27)=0$ (v) $(-7x-5)=0$

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

(i) $(-x-6y-1)=0$ (ii) $(-18x^2+81xy+63x-81y^2-108y-27)=0$ (iii) $(-4x-9y-z+2)=0$

(iv) $(12x^2+22x-14)=0$ (v) $(7x+3)=0$

18. Which of the following is a linear equation in three variable?

(i) $(54x^2+87x+28)=0$ (ii) $(-9x-3y-1)=0$ (iii) $(5x-9)=0$ (iv) $(-2x^2+8xy+10x-8y^2-20y-8)=0$

(v) $(-x+8y+4z+7)=0$

19. Which of the following is a linear equation in one variable?

(i) $(-5x-6y-6z+2)=(2x+4y+8z+9)$ (ii) $(-5x-7y+5)=(-7x+3y+6)$ (iii) $(-9x+3)=(6x+7)$

(iv) $(16x^2-28x+12)=(-9x-4)$ (v) $(30x^2-5xy+20x-35y^2+20y)=0$

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

(i) $(3x^2-17x-28)=(-5x-3)$ (ii) $(-8x+8y-z+8)=(5x-y+3z+9)$ (iii) $(-5x)=(2x-1)$

(iv) $(-8x^2+27xy-43x+20y^2-13y-15)=0$ (v) $(-9x+3y-8)=(8x-3y+7)$

21. Which of the following is a linear equation in three variable?

(i) $(-10x^2-39x-35)=(-6x+4)$ (ii) $(-8x-2y-7z+6)=(-5x-6y-2z+4)$ (iii) $(6x-9)=(x+4)$

(iv) $(36x^2+96xy-39x+48y^2+6y-42)=0$ (v) $(-8x+7y-4)=(-9x-7y+6)$

22. The linear equation $(4x-9)=(x+8)$ is equivalent to

(i) $(2x-17)=0$ (ii) $(4x-17)=0$ (iii) $(3x-17)=0$ (iv) $(4x-9)=(x+10)$ (v) $(4x-9)=(x+6)$

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

(i) $(9x-4y+4)=(6x+12y+4)$ (ii) $(4x-13y)=0$ (iii) $(9x-4y+4)=(6x+6y+4)$ (iv) $(3x-13y)=0$

(v) $(2x-13y)=0$

24. The linear equation $(-5x+2y+3z-6)=(2x-6y-6z+9)$ is equivalent to

(i) $(-7x+8y+9z-15)=0$ (ii) $(-8x+8y+9z-15)=0$ (iii) $(-5x+2y+3z-6)=(2x-4y-6z+9)$

(iv) $(-5x+2y+3z-6)=(2x-8y-6z+9)$ (v) $(-6x+8y+9z-15)=0$

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

(i) $x=(-1)$ (ii) $x=0$ (iii) $x=(-3)$ (iv) $x=1$ (v) $x=(-2)$

26. The value of x in terms of other variables and constant in $(3x+5y-1)=(-8x+6y+8)$ is

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

27. The value of y in terms of other variables and constant in $(8x+7y-3)=(6x-8y+5)$ is

(i) $y=(-\frac{2}{17}x+\frac{8}{15})$ (ii) $y=(-\frac{2}{15}x+\frac{8}{15})$ (iii) $y=(-\frac{2}{13}x+\frac{8}{15})$ (iv) $y=(-\frac{2}{15}x+\frac{2}{5})$ (v) $y=(-\frac{2}{15}x+\frac{2}{3})$

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

(i) $x=(y+14z-2)$ (ii) $x=(y+18z-2)$ (iii) $x=(y+16z-2)$ (iv) $x=(16z-2)$ (v) $x=(2y+16z-2)$

29. The value of y in terms of other variables and constant in $(-3x+8y-4z-5)=(-6x-9y+2z-7)$ is

(i) $y=(-\frac{3}{17}x+\frac{8}{17}z-\frac{2}{17})$ (ii) $y=(-\frac{3}{17}x+\frac{4}{17}z-\frac{2}{17})$ (iii) $y=(-\frac{3}{19}x+\frac{6}{17}z-\frac{2}{17})$ (iv) $y=(-\frac{1}{5}x+\frac{6}{17}z-\frac{2}{17})$

(v) $y=(-\frac{3}{17}x+\frac{6}{17}z-\frac{2}{17})$

30. The value of z in terms of other variables and constant in $(9x-6y-7z+6)=(-4x+2y-9z+2)$ is

(i) $z=(-\frac{13}{2}x+4y-2)$ (ii) $z=(-\frac{25}{4}x+4y-2)$ (iii) $z=(-\frac{13}{2}x+6y-2)$ (iv) $z=(-7x+4y-2)$

(v) $z=(-\frac{13}{2}x+2y-2)$

Assignment Key

1) (i)	2) (iii)	3) (ii)	4) (v)	5) (iii)	6) (iii)
7) (iii)	8) (iv)	9) (iv)	10) (ii)	11) (iv)	12) (i)
13) (iii)	14) (iv)	15) (iv)	16) (v)	17) (i)	18) (v)
19) (iii)	20) (v)	21) (ii)	22) (iii)	23) (iv)	24) (i)
25) (i)	26) (iv)	27) (ii)	28) (iii)	29) (v)	30) (i)

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