



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

- (i) $(-24x^2 + 15x) = 0$ (ii) $(-35x^2 - 73xy - 2x - 36y^2 - 5y + 1) = 0$ (iii) $(-x + 3y + z + 7) = 0$ (iv) $(6x - 2) = 0$
(v) $(-9x + 7y - 9) = 0$

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

- (i) $(2x - 9) = 0$ (ii) $(-8x + 4y - z + 2) = 0$ (iii) $(56x^2 + 15xy - 42x + y^2 - 5y - 14) = 0$ (iv) $(-20x^2 - 5x + 15) = 0$
(v) $(-4x - 5y - 9) = 0$

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

- (i) $(-2x - 3) = 0$ (ii) $(-2x - 5y - 9) = 0$ (iii) $(12x^2 - 12xy + 44x + 3y^2 - 22y + 7) = 0$ (iv) $(-2x^2 + 20x - 18) = 0$
(v) $(4x + 6y + 2z + 9) = 0$

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

- (i) $(-2x - 8y - 7z + 5) = (8x + 3y - 3z - 5)$ (ii) $(-6x^2 - 33x - 42) = (-2x + 5)$ (iii) $(6x - 9) = (-5x - 9)$
(iv) $(48x^2 - 90xy + 24x + 27y^2 - 36y) = 0$ (v) $(-5x - 4y + 1) = (7x + 8y + 1)$

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

- (i) $(48x^2 - 40x - 32) = (-8x)$ (ii) $(9x - 3y + 7z - 6) = (-4x - 5y + 8z)$
(iii) $(15x^2 + 14xy - 69x + 3y^2 - 35y + 72) = 0$ (iv) $(-6x + 7y + 8) = (7x + 5y - 8)$ (v) $(-8x + 9) = (-5x - 4)$

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

- (i) $(-2x + y + 3z + 5) = (-6x - 3y + 9z - 6)$ (ii) $(5x - 2) = (6x + 2)$ (iii) $(-6x^2 - 10xy + x + 24y^2 - 10y + 1) = 0$
(iv) $(-14x^2 + 13x - 3) = (-5x + 6)$ (v) $(-7x + y + 7) = (-x - 4y - 6)$

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

- (i) $(13x + 12) = 0$ (ii) $(11x + 12) = 0$ (iii) $(12x + 12) = 0$ (iv) $(4x + 8) = (-8x - 1)$ (v) $(4x + 8) = (-8x - 6)$

8. The value of x in terms of other variables and constant in $(-9x + 6) = (5x - 7)$ is

- (i) $x = \frac{13}{12}$ (ii) $x = \frac{13}{14}$ (iii) $x = \frac{15}{14}$ (iv) $x = \frac{13}{16}$ (v) $x = \frac{11}{14}$

9. The L.H.S of the equation $(-6x - 9) = 0$ is

- (i) $(-7x - 9)$ (ii) $(-6x - 7)$ (iii) 0 (iv) $(-6x - 9)$ (v) $(-6x - 11)$

10. The R.H.S of the equation $x=0$ is

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

11. The L.H.S of the equation $8x=(-4)$ is

- (i) $7x$ (ii) $8x$ (iii) $6x$ (iv) (-4) (v) $11x$

12. The R.H.S of the equation $(-3x-2)=4$ is

- (i) 2 (ii) 4 (iii) 3 (iv) $(-3x-2)$ (v) 7

13. The L.H.S of the equation $(4x+4)=(-2x+5)$ is

- (i) $(4x+7)$ (ii) $(-2x+5)$ (iii) $(4x+4)$ (iv) $(3x+4)$ (v) $(4x+1)$

14. The R.H.S of the equation $(-2x+4)=(-9x-4)$ is

- (i) $(-10x-4)$ (ii) $(-9x-7)$ (iii) $(-2x+4)$ (iv) $(-9x-4)$ (v) $(-9x-1)$

15. The additive inverse of the expression $(-9x-7)$ is

- (i) $(8x+7)$ (ii) $(9x+4)$ (iii) $(-9x-7)$ (iv) $(9x+10)$ (v) $(9x+7)$

16. The additive inverse of the expression 2 is

- (i) (-2) (ii) (-3) (iii) (-5) (iv) 2 (v) 1

17. Solve the equation $(x+3)=0$

- (i) -6 (ii) -2 (iii) -1 (iv) -4 (v) -3

18. Solve the equation $(-4x)=1$

- (i) $\frac{1}{4}$ (ii) $(\frac{-1}{6})$ (iii) $(\frac{-1}{2})$ (iv) $(\frac{-1}{4})$ (v) $(\frac{-3}{4})$

19. Solve the equation $(-4x+2)=0$

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

20. Solve the equation $(-\frac{9}{5}x+\frac{5}{3})=0$

- (i) $\frac{25}{29}$ (ii) $\frac{25}{27}$ (iii) $\frac{23}{27}$ (iv) 1

21. Solve the equation $(-2x-5)=6$

- (i) $(\frac{-9}{2})$ (ii) $(\frac{-13}{2})$ (iii) $(\frac{-21}{4})$ (iv) -6 (v) $(\frac{-11}{2})$

22. Solve the equation $(\frac{5}{2}x-\frac{4}{3})=(\frac{-5}{4})$

- (i) $\frac{1}{30}$ (ii) $\frac{1}{10}$ (iii) $(\frac{-1}{30})$ (iv) $\frac{1}{28}$ (v) $\frac{1}{32}$

23. Solve the equation $(3x-3)=(-5x-9)$

- (i) $(\frac{-1}{2})$ (ii) $(\frac{-3}{4})$ (iii) $(\frac{-3}{2})$ (iv) $(\frac{-1}{4})$ (v) $(\frac{-5}{4})$

24. Solve the equation $(-\frac{3}{7}x+5)=(\frac{3}{2}x-\frac{7}{2})$

- (i) $\frac{121}{27}$ (ii) $\frac{13}{3}$ (iii) $\frac{111}{25}$ (iv) $\frac{119}{27}$ (v) $\frac{127}{29}$

25. The linear equation $(-8x+7y+4)=(-5x-y-6)$ is equivalent to

- (i) $(-2x+8y+10)=0$ (ii) $(-4x+8y+10)=0$ (iii) $(-3x+8y+10)=0$ (iv) $(-8x+7y+4)=(-5x-3y-6)$
(v) $(-8x+7y+4)=(-5x+y-6)$

Assignment Key

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