

Linear Equations Worksheet – 1

1. Solve the equation and find the value of n.

$$9n - 7 = 3n + 5$$

2. Solve the linear equation of $\frac{8}{3}n - 3 = \frac{n}{2} + 20$.

3. Solve: $4 - 3(4x + 2) = 3(5 - 2x) + 1$

4. Solve: $\frac{2x+3}{5} + 1 = \frac{x+3}{3}$

5. Solve: $\frac{2x}{3} - \frac{x}{3} = \frac{x}{4} + \frac{3}{2}$

6. Solve $0.2(3 - x) = 0.3(x - 3)$

7. If $q = x + 2$, solve the following equation and find the value of x.

$$\frac{2q-1}{2} - \frac{3x+1}{5} = \frac{1}{2}$$

8. $\frac{3}{n+5} = \frac{4}{3-n}$, find the value of n.

9. Solve the equation $\frac{2n-3}{n+1} = -2\frac{1}{3}$

10. $2(3p - 1) = 7 - (4p - 1)$, solve and find p.

11. Solve this linear equation $\frac{p-3}{5} = \frac{p+1}{2} + 3$

12. Solve: $\frac{4t-3}{3} + \frac{3t+2}{2} = t + \frac{2}{5}$

13. Solve and find the value of z.

$$6z - 2[z - 5(z - 3)] = 6$$

14. Simplify: $\frac{4}{n} = \frac{7}{n-3}$

15. Simplify the following linear equation.

$$3(3x + 5) + 5(2x - 9) = 3(4x - 3) - 15$$

16. Simplify: $\frac{p+1}{5} - \frac{p-1}{3} = \frac{1+2p}{2}$

17. Solve: $\frac{n}{2} + \frac{n}{3} = 35 - \frac{n+30}{5}$

18. Simplify $\frac{2p}{p^2-25} - \frac{3}{p-5} = \frac{5}{p+5}$

19. Solve: $(z + 2)(z - 2) - z(z + 9) = 5$

20. Solve the linear equation and find the value of 't'.

$$\frac{t+3}{4} - \frac{3t-4}{5} + \frac{t-3}{3} = 0$$