

Linear equation

Exercise

Solve the following equations.

1) $x + 3 = 5$

2) $x - 4 = 7$

3) $x - 5 = 7$

4) $a + 5 = -8$

5) $3x = 15$

6) $7a = 28$

7) $2x + 5 = 23$

8) $5x - 7 = 18$

9) $3x - 2 = 10$

10) $4y + 3 = 23$

Find the value of the value of unknown quantity.

11. $2x + 3 = x + 6$

12. $2y + 5 = y + 7$

13. $3p + 1 = p + 7$

14. $3n - 2 = n + 4$

15. $5 + 2x = x + 7$

16. $15x + 5 = 5(2x - 3)$

17. $3(x - 1) = -x + 20$

18. $7(x - 1) = x + 23$

19. $2(x - 5) = 2x + 19$

20. $3(2y - 3) = 4y + 7$

Simplify and solve

21) $2(x + 3) = 6$

$\rightarrow x =$ _____

23) $3(x+5)=12$

$\rightarrow x =$ _____

25) $7(x+4)= 42$

$\rightarrow x =$ _____

27) $3x - (-9) = 9$

$\rightarrow x =$ _____

29) $3x + (-8) = 7$

$\rightarrow x =$ _____

22) $5(x - 8) = 40$

$\rightarrow x =$ _____

24) $5(2x-3)=15$

$\rightarrow x =$ _____

26) $x - (-8) = 9$

$\rightarrow x =$ _____

28) $2x - (-13) = 19$

$\rightarrow x =$ _____

30) $4x + (-7) = 9$

$\rightarrow x =$ _____

Solve the following equation

31) $(3x + 2) / 2 = 3$ $\rightarrow x =$ _____

32) $(4x + 2) / 5 = 6$ $\rightarrow x =$ _____

33) $(2x - 8) / 4 = 4$ $\rightarrow x =$ _____

34) $(4x - 5) / 4 = 5$ $\rightarrow x =$ _____

35) $(3x + 2) / 2 = 3$ $\rightarrow x =$ _____

Word problems of Linear Equation

36) I think a number, divide it by 4, take away 7 from it, the answer is 7. Find the number: _____

37). Sam thought a number, divided it by 3, added 5 to it, the answer is 8. Find the number: _____

38). Peter thought a number, divided it by 6, took away 9 from it, the answer is 9. Find the number: _____

39). Sam thought a number, added 11, the answer is 15. Find the number: _____

40) John thought a number, took away 7 from it, twice the whole result, the answer is 6. Find the number: _____