

LINEAR EQUATIONS IEXERCISE

①

Solve the following equations:

1) $x + 9 = 11$

2) $x - 3 = 4$

3) $3x = 12$

4) $\frac{x}{2} = 5$

5) $x + 1 = 8$

6) $x - 5 = 7$

7) $7x = 21$

8) $\frac{x}{3} = 5$

9) $x + 4 = 1$

10) $x - 5 = -4$

11) $2x = 15$

12) $\frac{x}{10} = 4$

13) $2x + 5 = 19$

14) $3x - 2 = 16$

15) $4x + 3 = 23$

16) $5x - 7 = 43$

17) $6x + 2 = 20$

18) $7x - 5 = 23$

19) $2x - 7 = 8$

20) $3x + 5 = 19$

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②

$$\begin{aligned} 1) \quad x + 9 &= 11 \\ x &= 11 - 9 \\ x &= 2 \end{aligned}$$

$$\begin{aligned} 7) \quad 7x &= 21 \\ x &= \frac{21}{7} \\ x &= 3 \end{aligned}$$

$$\begin{aligned} 2) \quad x - 3 &= 4 \\ x &= 4 + 3 \\ x &= 7 \end{aligned}$$

$$\begin{aligned} 8) \quad \frac{x}{3} &= 5 \\ x &= 5 \times 3 \\ x &= 15 \end{aligned}$$

$$\begin{aligned} 3) \quad 3x &= 12 \\ x &= \frac{12}{3} \\ x &= 4 \end{aligned}$$

$$\begin{aligned} 9) \quad x + 4 &= 1 \\ x &= 1 - 4 \\ x &= -3 \end{aligned}$$

$$\begin{aligned} 4) \quad \frac{x}{2} &= 5 \\ x &= 5 \times 2 \\ x &= 10 \end{aligned}$$

$$\begin{aligned} 10) \quad x - 5 &= -4 \\ x &= -4 + 5 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} 5) \quad x + 1 &= 8 \\ x &= 8 - 1 \\ x &= 7 \end{aligned}$$

$$\begin{aligned} 11) \quad 2x &= 15 \\ x &= \frac{15}{2} \\ x &= 7\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 6) \quad x - 5 &= 7 \\ x &= 7 + 5 \\ x &= 12 \end{aligned}$$

$$\begin{aligned} 12) \quad \frac{x}{10} &= 4 \\ x &= 4 \times 10 \\ x &= 40 \end{aligned}$$

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$$\begin{aligned} 13) \quad 2x + 5 &= 19 \\ 2x &= 19 - 5 \\ 2x &= 14 \\ x &= \frac{14}{2} \\ x &= 7 \end{aligned}$$

$$\begin{aligned} 16) \quad 5x - 7 &= 43 \\ 5x &= 43 + 7 \\ 5x &= 50 \\ x &= \frac{50}{5} \\ x &= 10 \end{aligned}$$

$$\begin{aligned} 14) \quad 3x - 2 &= 16 \\ 3x &= 16 + 2 \\ 3x &= 18 \\ x &= \frac{18}{3} \\ x &= 6 \end{aligned}$$

$$\begin{aligned} 17) \quad 6x + 2 &= 20 \\ 6x &= 20 - 2 \\ 6x &= 18 \\ x &= \frac{18}{6} \\ x &= 3 \end{aligned}$$

$$\begin{aligned} 15) \quad 4x + 3 &= 23 \\ 4x &= 23 - 3 \\ 4x &= 20 \\ x &= \frac{20}{4} \\ x &= 5 \end{aligned}$$

$$\begin{aligned} 18) \quad 7x - 5 &= 23 \\ 7x &= 23 + 5 \\ 7x &= 28 \\ x &= \frac{28}{7} \\ x &= 4 \end{aligned}$$

LINEAR EQUATIONS I

EXERCISE

19)

$$2x - 7 = 8$$

$$2x = 8 + 7$$

$$2x = 15$$

$$x = \frac{15}{2}$$

$$x = 7\frac{1}{2}$$

20)

$$3x + 5 = 19$$

$$3x = 19 - 5$$

$$3x = 14$$

$$x = \frac{14}{3}$$

$$x = 4\frac{2}{3}$$

