

**Solve for X.**

1)  $-5x - 3 = 22$

2)  $-2x - 10 = -2$

3)  $-8x - 10 = -50$

4)  $-3x + 1 = -20$

5)  $\frac{x}{7} + 6 = 9$

6)  $\frac{x}{4} - 10 = -20$

7)  $\frac{-x}{5} + 9 = 1$

8)  $-x + 1 = -7$

9)  $4x + 4 = 36$

10)  $\frac{-x}{2} - 7 = 1$

11)  $\frac{-x}{5} - 4 = -5$

12)  $\frac{-x}{6} + 6 = 1$

**Solve for X.**

1)  $-5x - 3 = 22$

Answer:  $-5$ 

2)  $-2x - 10 = -2$

Answer:  $-4$ 

3)  $-8x - 10 = -50$

Answer:  $5$ 

4)  $-3x + 1 = -20$

Answer:  $7$ 

5)  $\frac{x}{7} + 6 = 9$

Answer:  $21$ 

6)  $\frac{x}{4} - 10 = -20$

Answer:  $-40$ 

7)  $\frac{-x}{5} + 9 = 1$

Answer:  $40$ 

8)  $-x + 1 = -7$

Answer:  $8$ 

9)  $4x + 4 = 36$

Answer:  $8$

$$10) \frac{-x}{2} - 7 = 1$$

Answer: -16

$$11) \frac{-x}{5} - 4 = -5$$

Answer: 5

$$12) \frac{-x}{6} + 6 = 1$$

Answer: 30

MathVine - Pre-Algebra

Name \_\_\_\_\_

Two Step Linear Equations

Date \_\_\_\_\_ Period \_\_\_\_\_

### Solution Steps

$$1) -5x - 3 = 22$$

$$-5x - 3 = 22$$

$$+3 = +3$$

$$-5x = 25$$

$$/ -5 = / -5$$

$$x = -5$$

$$2) -2x - 10 = -2$$

$$-2x - 10 = -2$$

$$+10 = +10$$

$$-2x = 8$$

$$/ -2 = / -2$$

$$x = -4$$

$$3) -8x - 10 = -50$$

$$-8x - 10 = -50$$

$$+10 = +10$$

$$-8x = -40$$

$$/ -8 = / -8$$

$$x = 5$$

$$4) -3x + 1 = -20$$

$$-3x + 1 = -20$$

$$-1 = -1$$

$$-3x = -21$$

$$/ -3 = / -3$$

$$x = 7$$

$$5) \frac{x}{7} + 6 = 9$$

$$\frac{x}{7} + 6 = 9$$

$$-6 = -6$$

$$\frac{x}{7} = 3$$

$$*7 = *7$$

$$x = 21$$

$$6) \frac{x}{4} - 10 = -20$$

$$\frac{x}{4} - 10 = -20$$

$$+10 = +10$$

$$\frac{x}{4} = -10$$

$$*4 = *4$$

$$x = -40$$

$$7) \frac{-x}{5} + 9 = 1$$

$$\frac{-x}{5} + 9 = 1$$

$$\frac{-9}{5} = -9$$

$$\frac{-x}{5} = -8$$

$$* - 5 = * - 5$$

$$x = 40$$

$$10) \frac{-x}{2} - 7 = 1$$

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

$$\frac{+7}{2} = +7$$

$$\frac{-x}{2} = 8$$

$$* - 2 = * - 2$$

$$x = -16$$

$$8) -x + 1 = -7$$

$$-x + 1 = -7$$

$$-1 = -1$$

$$-x = -8$$

$$/ - 1 = / - 1$$

$$x = 8$$

$$11) \frac{-x}{5} - 4 = -5$$

$$\frac{-x}{5} - 4 = -5$$

$$\frac{+4}{5} = +4$$

$$\frac{-x}{5} = -1$$

$$* - 5 = * - 5$$

$$x = 5$$

$$9) 4x + 4 = 36$$

$$4x + 4 = 36$$

$$-4 = -4$$

$$4x = 32$$

$$/ 4 = / 4$$

$$x = 8$$

$$12) \frac{-x}{6} + 6 = 1$$

$$\frac{-x}{6} + 6 = 1$$

$$\frac{-6}{6} = -6$$

$$\frac{-x}{6} = -5$$

$$* - 6 = * - 6$$

$$x = 30$$