

Name: _____

Period: _____

Solving Two - Step Equations: Homework

$$1.) \quad 25 = -3x + 19$$

$$\quad -19 \quad -19$$

$$\frac{6}{-3} = \frac{-3x}{-3} \quad \boxed{-2 = x}$$

$$2.) \quad 6 - 5x = -14$$

$$\quad -6 \quad -6$$

$$\frac{-5x}{-5} = \frac{-20}{-5}$$

$$\boxed{x = 4}$$

$$3.) \quad -19x - 3 = -22$$

$$\quad \quad +3 \quad +3$$

$$\frac{-19x}{-19} = \frac{-19}{-19}$$

$$\boxed{x = 1}$$

$$4.) \quad 19 = -7x + 5$$

$$\quad -5 \quad -5$$

$$\frac{14}{-7} = \frac{-7x}{-7}$$

$$\boxed{-2 = x}$$

$$5.) \quad 9 - x = 3$$

$$\quad -9 \quad -9$$

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

$$\boxed{x = 6}$$

$$6.) \quad 11 = 20 - x$$

$$\quad -20 \quad -20$$

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

$$\boxed{9 = x}$$

$$7.) \quad -8 = 12 - x$$

$$\quad -12 \quad -12$$

$$\frac{-20}{-1} = \frac{-x}{-1}$$

$$\boxed{20 = x}$$

$$8.) \quad 10 = 6 + \frac{x}{3}$$

$$\quad -6 \quad -6$$

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

$$\boxed{12 = x}$$

$$9.) \quad \frac{x}{4} - 5 = -3$$

$$\quad \quad +5 \quad +5$$

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

$$\boxed{x = 8}$$

$$10.) \quad \frac{x-13}{3} = 7 \cdot 3$$

$$3 \cdot \frac{x-13}{3} = 7 \cdot 3$$

$$x - 13 = 21$$

$$\quad +13 \quad +13$$

$$\boxed{x = 34}$$

$$8.) \frac{-x-2}{8} = -2.8$$

$$\frac{-x-2}{+2} = \frac{-16}{+2}$$

$$\frac{-x}{-1} = \frac{-14}{-1}$$

$$x = 14$$

$$12.) \frac{5-x}{3} = 6.3$$

$$\frac{5-x}{-5} = \frac{18}{-5}$$

$$\frac{-x}{-1} = \frac{13}{-1}$$

$$x = -13$$

$$13.) 6 + 3\frac{1}{3}x = 26$$

$$\frac{-6}{-6} = \frac{-20}{-6}$$

$$3\frac{1}{3}x = 20$$

$$3 \cdot \frac{10}{3}x = 20 \cdot 3$$

$$\frac{10x}{10} = \frac{60}{10}$$

$$x = 6$$

$$14.) -3\frac{1}{4}y - 5 = 21$$

$$\frac{+5}{+5} = \frac{26}{+5}$$

$$-3\frac{1}{4}y = 26$$

$$4 \cdot -\frac{13}{4}y = 26 \cdot 4$$

$$\frac{-13y}{-13} = \frac{104}{-13}$$

$$y = -8$$

$$15.) -19.7 = -4.6x - 5.9$$

$$\frac{+5.9}{+5.9} = \frac{-13.8}{+5.9}$$

$$\frac{-13.8}{-4.6} = \frac{-4.6x}{-4.6}$$

$$3 = x$$

$$16.) 6.5x + 12.2 = 57.7$$

$$\frac{-12.2}{-12.2} = \frac{45.5}{-12.2}$$

$$\frac{6.5x}{6.5} = \frac{45.5}{6.5}$$

$$x = 7$$

$$17.) 16.8 - \frac{x}{5.1} = 12.8$$

$$\frac{-16.8}{-16.8} = \frac{-16.8}{-16.8}$$

$$5.1 \cdot -\frac{x}{5.1} = -4 \cdot 5.1$$

$$\frac{-x}{-1} = \frac{-20.4}{-1}$$

$$x = 20.4$$

$$18.) -\frac{7}{9}x + 13.8 = -7.2$$

$$\frac{-13.8}{-13.8} = \frac{-21.0}{-13.8}$$

$$9 \cdot -\frac{7}{9}x = -21.0$$

$$\frac{-7x}{-7} = \frac{-189}{-7}$$

$$x = 27$$