

1. Решите уравнения

а)

$$6,75x = 2 \frac{1}{4} x - 9$$

$$\frac{27}{4} x = \frac{9}{4} x - 9$$

$$\frac{27}{4} x - \frac{9}{4} x = -9$$

$$\frac{9}{2} x = -9$$

$$x = -9 : \frac{9}{2}$$

$$x = -2$$

б)

$$1 \frac{1}{4} y + 7,5 = 5y$$

$$\frac{5}{4} y - 5y = - \frac{15}{2}$$

$$- \frac{15}{4} y = - \frac{15}{2}$$

$$y = - \frac{15}{2} \cdot \left(- \frac{4}{15} \right)$$

$$y = \frac{60}{30} = 2$$

в)

$$6y - 2 \frac{4}{5} = 2,5y$$

$$6y - \frac{25}{10} y = \frac{14}{5}$$

$$\frac{7}{2}y = \frac{14}{5}$$

$$y = \frac{14}{5} \cdot \frac{2}{7}$$

$$y = \frac{28}{35} = 0,8$$

2) Решите уравнения

а)

$$3(x+5) = 7-5x$$

$$3x+15=7-5x$$

$$8x = -8$$

$$x = -1$$

б)

$$4(x-9) = 3(x-8)$$

$$4x-36=3x-24$$

$$x=12$$

в)

$$7(3-2x) = 15(1-x)$$

$$21-14x=15-15x$$

$$x = -6$$

3) Решите уравнения

а)

$$7x - (3+2x) = x+9$$

$$7x-3-2x=x+9$$

$$4x=12$$

$$x=3$$

б)

$$13 - (2x-5) = x-3$$

$$13 - 2x + 5 = x - 3$$

$$-3x = 15$$

$$x = -5$$

В)

$$3x - (10 - 9x) = 22x$$

$$3x - 10 + 9x = 22x$$

$$-10x = 10$$

$$x = -1$$

Г)

$$26 - (17 - 2x) = 5x$$

$$26 - 17 + 2x = 5x$$

$$-3x = -9$$

$$x = 3$$