

25/03/20

$$96) \boxed{-2(2x-3)} + \boxed{3(x-1)} = \boxed{2(x-x)}$$

$$-4x + 6 + 3x - 3 = 2x - 2x$$

$$-4x + 3x - 2x + 2x = -6 + 3$$

$$-1x = -3$$

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

$$x = 3$$

$$97) \boxed{4(x-3)} - \boxed{5(x+2)} = \boxed{-2(3x-1)}$$

$$4x - 12 - 5x - 10 = -6x + 2$$

$$4x - 5x + 6x = 2 + 12 + 10$$

$$5x = 24$$

$$x = \frac{24}{5}$$

$$98) \boxed{7(x+2)} - \boxed{5(x-3)} = \boxed{4(x-2)} + 1$$

$$7x + 14 - 5x + 15 = 4x - 8 + 1$$

$$7x - 5x - 4x = -8 + 1 - 14 - 15$$

$$-2x = -36$$

$$x = \frac{-36}{-2}$$

$$x = 18$$

$$99) \boxed{2(3x-7)} + 6 = 4x - \boxed{3(2-2x)}$$

$$6x - 14 + 6 = 4x - 6 + 6x$$

$$6x - 4x - 6x = -6 + 14 - 6$$

$$-4x = 2$$

$$x = \frac{2}{-4} \quad \text{Simplificar}$$

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

$$100) \quad \boxed{-(x+1)} - \boxed{2(x-2)} = \boxed{-(x-3)}$$

$$-x - 1 - 2x + 4 = -x + 3$$

$$-x - 2x + x = 3 + 1 - 4$$

$$-2x = 0$$

$$x = \frac{0}{-2}$$

$$x = 0$$

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Ecuaciones con denominadores:

$$7) \quad \frac{3x}{2} - 4 = 24 - x$$

$$m.c.m(2, 1) = 2$$

$$\frac{3x}{2} - \frac{8}{2} = \frac{48}{2} - \frac{2x}{2}$$

$$\boxed{\frac{3x-8}{2} = \frac{48-2x}{2}}$$
$$\boxed{3x-8 = \frac{48-2x}{2} \cdot 2}$$

$$3x - 8 = 48 - 2x$$

$$3x + 2x = 48 + 8$$

$$\textcircled{5}x = 56$$

$$x = \frac{56}{5}$$

$$8) \quad 6_{\frac{1}{5}} + \frac{2x}{5} = 6_{\frac{1}{5}} + 8_{\frac{1}{5}}$$

$$\frac{30}{5} + \frac{2x}{5} = \frac{30}{5} + \frac{40}{5}$$

Se simplifica el denominador

$$\underline{30} + 2x = 30 + 40$$

$$2x = 30 + 40 - 30$$

$$\textcircled{2}x = 40$$

$$x = \frac{40}{2}$$

$$x = 20$$

$$9) \quad \frac{5x}{3} + 7_{\frac{1}{3}} = \frac{2x}{3} + 25_{\frac{1}{3}}$$

$$\frac{5x}{3} + \frac{21}{3} = \frac{2x}{3} + \frac{75}{3}$$

Se simplifican los denominadores

$$5x + 21 = 2x + 75$$

$$5x - 2x = 75 - 21$$

$$\textcircled{3}x = 54$$

$$x = \frac{54}{3}$$

$$x = 18$$

$$10) \quad 5x_{\frac{1}{2}} - x_{\frac{1}{2}} = \frac{6x}{2}$$

$$\frac{10x}{2} - \frac{2x}{2} = \frac{6x}{2}$$

$$10x - 2x = \underline{6x}$$

$$10x - 2x - 6x = 0$$

$$\textcircled{2}x = 0$$

$$x = \frac{0}{2}$$

$$x = 0$$

$$5x - x = \frac{6x}{2}$$

$$4x = \frac{6x}{2}$$

$$\frac{8x}{2} = \frac{6x}{2}$$

$$8x = \underline{6x}$$

$$8x - 6x = 0$$

$$2x = 0$$

$$x = \frac{0}{2}$$

$$x = 0$$

Deberes: 11, 12, 13 y 14

$$15) \quad \frac{x-3}{7} + \frac{x+1}{2} = \frac{3}{14}$$

$$\text{m.c.m.}(7, 2, 14) = 14$$

$$\frac{2(x-3)}{14} + \frac{7(x+1)}{14} = \frac{3}{14}$$

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

$$2x - 6 + 7x + 7 = 3$$

$$2x + 7x = 3 + 6 - 7$$

$$\textcircled{9}x = 2$$

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

de simplifican los denominadores

$$16) \quad \frac{x+1}{2} = \frac{4x-1}{3}$$

$$\text{m.c.m.}(2,3) = 6$$

$$\frac{3(x+1)}{6} = \frac{2(4x-1)}{6}$$

$$3(x+1) = 2(4x-1)$$

$$3x + 3 = 8x - 2$$

$$3x - 8x = -2 - 3$$

$$-5x = -5$$

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

$$x = 1$$

se simplifican
los denominadores