

1º C

02/04/20

$$18) 6 + 2 \cdot (x - 3) = \frac{x+1}{5}$$

$$6_{\frac{1}{5}} + 2x_{\frac{1}{5}} - 6_{\frac{1}{5}} = \frac{x+1}{5}$$

$$\frac{30}{5} + \frac{10x}{5} - \frac{30}{5} = \frac{x+1}{5}$$

$$\underline{30} + 10x - \underline{30} = x + 1$$

$$10x - x = 1 - 30 + 30$$

$$\textcircled{9}x = 1$$

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

1º) Multiplicación

i Será la conexión!

Seguid la explicación por la pantalla

Simplificando los denominadores

Duda

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

$$19) \frac{4x-12}{4} = x_{\frac{1}{5}} - 15_{\frac{1}{5}}$$

$$\frac{4x-12}{4} = \frac{4x}{4} - \frac{60}{4}$$

$$4x-12 = 4x-60$$

$$4x-4x = -60+12$$

$$0x = -48 \leftarrow$$

¿Hay algún número que multiplicado por 0 de -48? NO

La ecuación no tiene solución

$$x = \frac{-48}{0}$$

[No sabemos dividir por 0]

$$20) x_{\frac{1}{3}} + 5_{\frac{1}{3}} = \frac{x+3}{3}$$

$$21) \frac{3x}{2} + \frac{5x}{3} = \frac{3x}{2} - 1$$

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

$$\frac{3x}{3} + \frac{15}{3} = \frac{x+3}{3}$$

Simplificamos los denominadores

$$3x + 15 = x + 3$$

$$3x - x = 3 - 15$$

$$\textcircled{2}x = -12$$

$$x = \frac{-12}{2}$$

$$x = -6$$

$$21) \frac{3x}{2} + \frac{5x}{3} = \frac{3x}{2} - \frac{1}{2}$$

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

$$\frac{9x}{6} + \frac{10x}{6} = \frac{9x}{6} - \frac{6}{6}$$

$$9x + 10x = 9x - 6$$

simplificamos los denominadores

$$9x + 10x - 9x = -6$$

$$\textcircled{10}x = -6$$

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

$$x = -\frac{3}{5}$$

$$\frac{3x}{2} + \frac{5x}{3} = \frac{3x}{2} - \frac{1}{2}$$
$$\frac{3x}{2} - \frac{3x}{2} + \frac{5x}{3} = -\frac{1}{2}$$
$$= 0$$

$$\frac{5x}{3} = -\frac{1}{2}$$

$$\frac{5x}{3} = \frac{-3}{3}$$

$$\textcircled{5}x = -3$$
$$x = \frac{-3}{5}$$

$$22) \frac{4}{5} = \frac{2}{3} - x_{1/2}$$

$$\frac{12}{15} = \frac{10}{15} - \frac{15x}{15}$$

$$12 = 10 - 15x$$

$$15x = 10 - 12$$

$$15x = -2$$

$$23) \frac{-3+x}{2} = 4$$

Simplificamos los denominadores

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

$$23) \quad -\frac{3+x}{2} = 4\frac{1}{1}$$

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

$$\underline{-3+x} = 8$$

$$x = 8 + 3$$

$$x = 11$$

↙ Simplificamos los denominadores

$$24) \quad \frac{x+3}{3} = x\frac{1}{1} + 5\frac{1}{1}$$

$$\frac{x+3}{3} = \frac{3x}{3} + \frac{15}{3}$$

$$\underline{x+3} = \underline{3x+15}$$

$$x - 3x = 15 - 3$$

$$\textcircled{-2}x = 12$$

$$x = \frac{12}{-2}$$

$$x = -6$$

$$25) \quad -\frac{3x+1}{2} = -2x + 5\frac{1}{1}$$

$$\frac{-3x+1}{2} = \frac{4x}{2} + \frac{10}{2}$$

$$\underline{-3x+1} = \underline{4x+10}$$

$$-3x - 4x = 10 - 1$$

$$\textcircled{-7}x = 9$$

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

$$26) \quad \frac{x-1}{5} = 3\frac{1}{5} + \frac{x}{2}$$

$$\frac{2(x-1)}{10} = \frac{30}{10} + \frac{5x}{10}$$

$$2(x-1) = 30 + 5x$$

$$\underline{2x-2} = \underline{30+5x}$$

$$2x - 5x = 30 + 2$$

$$\textcircled{-3}x = 32$$

$$x = \frac{32}{-3}$$

$$\parallel \quad \frac{2x-6}{2} = x-5 \quad \textcircled{27}$$

Deberes: 27 y 28