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classe : Info P18

1) (5 points)

$$\frac{4}{5} + x = \frac{2}{5} \quad x = -\frac{4}{5} + \frac{2}{5}$$

$$x = -\frac{2}{5} \quad \checkmark$$

2) (5 points)

$$4x - (2 - x) = x - 8$$

$$4x - 2 + x = x - 8$$
~~$$4x - 5x = 2 - 8$$~~

$$4x + x - x = 2 - 8$$

$$4x = -6$$

$$x = -\frac{6}{4} = -\frac{3}{2}$$

3) (5 points)

$$8x - 3 + 2x = 12 - 5x$$
~~$$10x = 15$$~~

$$15x = 15$$

$$x = 1 \quad \checkmark$$

4) (5 points)

$$10(x + 3) - 7 = 5(3 - x) - 7$$

$$10x + 30 - 7 = 15 - 5x - 7$$

$$40 = 15 - 5x$$

$$25 = -5x$$

$$5x = -25$$

$$x = -5$$



5) (5 points)

$$4(2x+1)+6(x-4)=4(3x+1)+x+6$$

$$8x+4+6x-24=12x+4+x+6$$

$$14x-20=13x+10$$

$$x=30 \checkmark$$

6) (5 points)

$$\frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 26$$

$$\frac{6x+4x+3x}{12} = 26$$

$$\frac{13x}{12} = 26 \Rightarrow x = \frac{12 \cdot 26}{13}$$

$$\frac{13x}{12} = \frac{12 \cdot 26}{13} \Rightarrow x = \frac{12 \cdot 26}{13}$$

7) (5 points)

$$\frac{3x}{4} + \frac{1}{2} - \frac{3}{8} + \frac{x}{4} + \frac{1}{8} = -\frac{x}{2}$$

$$\frac{3x}{4} + \frac{x}{4} + \frac{2x}{4} = \frac{4 \cdot 1}{4 \cdot 2} + \frac{3}{8} - \frac{1}{8}$$

$$\frac{6x}{4} = \frac{-8+3-1}{8}$$

$$\frac{5x}{2} = -\frac{6}{8}$$

8) (5 points)

$$(-1)^3 x + \frac{x}{2} = \left(-\frac{1}{2}\right)^3$$

$$-x + \frac{x}{2} = -\frac{1}{8}$$

$$-3x + 0.5x = -\frac{1}{8}$$

$$-2.5x = -\frac{1}{8}$$

$$x = \frac{2.5}{8} = \frac{5}{16}$$

$$2.5x = -\frac{3}{8}$$

$$x = \frac{2.5}{3/8}$$