

Matemáticas 3º ESO (Semana 18 Mayo)

$$\begin{aligned} 1^{\circ}) \text{ b) } 3x-5+2x+3 &= x \\ 3x-x+2x &= 5-3 \\ 4x &= 2 \\ x &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 2^{\circ}) \text{ b) } \frac{x}{4} &= \frac{2x-5}{3} \\ 3x &= 4(2x-5) \\ 3x &= 8x-20 \\ -5x &= -20 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} 3^{\circ}) \text{ b) } \frac{x}{4} + 3 &= 2 - \frac{x-2}{2} \\ \frac{x}{4} + \frac{12}{4} &= \frac{8}{4} - \frac{2x-4}{4} \\ x+12 &= 8 - (2x-4) \\ x+2x &= 8+4-12 \\ 3x &= 0 \\ x &= 0 \end{aligned}$$

$$\begin{aligned} 4^{\circ}) \text{ b) } \frac{2x}{5} - \frac{5(x-2)}{3} &= \frac{4-2x}{3} \\ \frac{6x}{15} - \frac{25(x-2)}{15} &= \frac{5(4-2x)}{15} \\ 6x - 25x + 50 &= 20 - 10x \\ 6x - 25x + 10x &= 20 - 50 \\ -9x &= -30 \\ x &= \frac{30}{9} = \frac{10}{3} \end{aligned}$$

$$\begin{aligned} 5^{\circ}) \text{ b) } \frac{4}{5x-1} &= \frac{1}{x+2} \\ 4(x+2) &= 5x-1 \\ 4x+8 &= 5x-1 \\ -x &= -9 \quad x=9 \end{aligned}$$

$$\begin{aligned} 6^{\circ}) \text{ b) } \frac{4x}{5} - 3\left(x - \frac{7}{3}\right) &= \frac{2}{5}\left(\frac{x}{3} + \frac{4}{6}\right) \\ \frac{4x}{5} - 3x + 7 &= \frac{2x}{15} + \frac{8}{30} \\ \frac{24x}{30} - \frac{90x}{30} + \frac{210}{30} &= \frac{4x}{30} + \frac{8}{30} \\ 24x - 90x - 4x &= 8 - 210 \\ -70x &= -202 \\ x &= \frac{-202}{-70} = \frac{101}{35} \end{aligned}$$

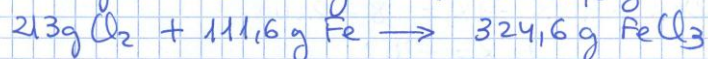
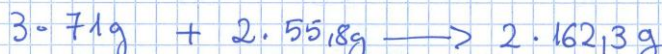
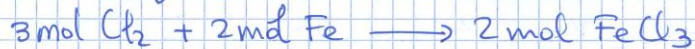
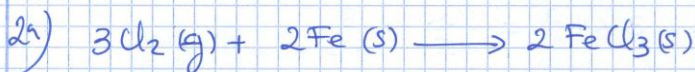
$$\begin{aligned} 7^{\circ}) \text{ b) } x-5 &= \frac{x}{5} \\ 5x-25 &= x \\ 4x &= 25 \\ x &= \frac{25}{4} \end{aligned}$$

$$\begin{aligned}
 8a) \quad & x - \left(\frac{x}{4} + 20\right) + \frac{1}{3}x = x \\
 & x - \frac{x}{4} - 20 + \frac{1}{3}x = x \\
 & \frac{12x}{12} - \frac{3x}{12} - \frac{240}{12} + \frac{4x}{12} = \frac{12x}{12} \\
 & x - 240 = 0 \\
 & \underline{\underline{x = 240 \text{ l}}}
 \end{aligned}$$

$$\begin{aligned}
 9a) \quad & 2x + 2x + 2 + 2x + 4 = 36 \\
 & 6x + 6 = 36 \\
 & 6x = 30 \quad x = 5 \quad \text{lado} = 10, 12, 14 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 10a) \quad & x + 15 + x + x = 180 \\
 & 3x + 15 = 180 \\
 & 3x = 180 - 15 \\
 & x = \frac{165}{3} \quad x = 55 // 55^\circ, 55^\circ \text{ e } 70^\circ
 \end{aligned}$$

30 QUESTOES PRATE FQ. (Semana 18 Maio)



$$\text{Masa molar HCl} = 35,5 + 1 = 36,5 \text{ g}$$

$$\text{Masa molar AlCl}_3 = 27 + 35,5 \cdot 3 = 133,5 \text{ g}$$

$$\text{Masa molar Al} = 27 \text{ g}$$

$$\text{Masa molar Cl}_2 = 35,5 \cdot 2 = 71 \text{ g}$$

$$\text{Masa molar FeCl}_3 = 55,8 + 35,5 \cdot 3 = 162,3 \text{ g}$$