

$$01- \quad (a) \ x = \frac{y-1}{3y+2} \quad (b) \ y = \frac{1 + 2 \cdot \left(\frac{t-1}{3t+2}\right)}{1 - 3 \cdot \left(\frac{t-1}{3t+2}\right)} = t$$

$$02- \quad x = 2 \cdot 338 = 676. \text{ Logo } \sqrt{x} = 26$$

$$03- \quad \frac{\sqrt{6} - \sqrt{2}}{4} = \frac{\sqrt{x} - \sqrt{3}}{2} \Rightarrow x - \sqrt{3} = \frac{6 + 2 - 2\sqrt{12}}{4} \Rightarrow \log_0 x = 2$$

$$04- \quad \frac{42 - 38}{42 - 40} = \frac{10 - x}{10 - 8,5} \Rightarrow x = 7$$

$$05- \quad \left\{ \begin{array}{l} n = v + 18 + d \\ \frac{v}{d} = \frac{5}{1} \\ \frac{v+6}{d} = \frac{6}{1} \end{array} \right. \Rightarrow d = 6, v = 30, n = 54$$

$$06- \quad (a) 7,68 \cdot 10^{-3} \text{ m}^2 \quad (b) 4,00768 \text{ m}^2 \cong 4,0077 \text{ m}^2 \cong 4,008 \text{ m}^2 \cong 4,01 \text{ m}^2$$

$$07- \quad 4000 + 8000 + 16000 + 32000 + 64000 \cdot x > 400.000 \Rightarrow x > 5,3125 \\ \Rightarrow x = 6 \Rightarrow n = 4 + 6 = 10 \text{ multas}$$

$$08- \quad x^2 - x + 2 = 0 \Rightarrow x = -2 \text{ ou } x = 1 \Rightarrow A = (-2, 0); B = (1, 0); C = (0, 2) \\ \Rightarrow \text{Área} = \frac{3 \cdot 2}{2} = 3 \text{ cm}^2 = 0,0003 \text{ m}^2$$

$$09- \quad PT^2 = PA \cdot PB \Rightarrow 16^2 = 32 \cdot PB \Rightarrow PB = 8 \Rightarrow AB = 24 \Rightarrow 13^2 = 12^2 + d^2 \Rightarrow d = 5 \text{ cm}$$

$$10- \quad \frac{\pi r^2}{2} = 128\pi \Rightarrow r = 16 \text{ cm} \Rightarrow l = \frac{2\pi \cdot 16 \cdot 60}{360} \Rightarrow l = \frac{16\pi}{3} \text{ m}$$