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27

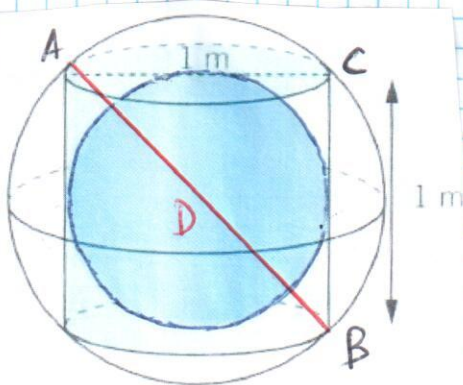
$$V = \frac{4}{3} \pi R^3 = \frac{4}{3} 3.14 \cdot 5^3 = \underline{\underline{523.23 \text{ cm}^3}}$$

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$$V = \frac{4}{3} \pi R^3 \quad // \quad 22 = \frac{4}{3} \pi R^3 \quad // \quad R^3 = \frac{22 \cdot 3}{4 \cdot \pi} = \frac{66}{12.56}$$

$$= 5.25 \quad // \quad R = \sqrt[3]{5.25} = \underline{\underline{1.74 \text{ dm}}}$$

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$$V_{\text{inscrita}} = \frac{4}{3} \pi R^3 = \frac{4}{3} 3.14 \cdot 0.5^3 = \underline{\underline{0.52 \text{ m}^3}}$$

$$V_{\text{circunscrita}} = \frac{4}{3} \pi R^3$$

Hallamos: R

En el triángulo $\triangle ABC$ $D^2 = AC^2 + CB^2$

$$D^2 = 1^2 + 1^2 = 2 \quad // \quad D = \sqrt{2} \text{ m.} \quad // \quad R = \frac{\sqrt{2}}{2}$$

$$V = \frac{4}{3} \pi R^3 = \frac{4}{3} 3.14 \left(\frac{\sqrt{2}}{2}\right)^3 = \frac{4}{3} 3.14 \cdot \left(\frac{1.41}{2}\right)^3 = \underline{\underline{1.47 \text{ m}^3}}$$

Diferencia entre los radios

$$\frac{\frac{\sqrt{2}}{2}}{2} - \frac{1}{2} = \frac{1.41 - 1}{2} = \underline{\underline{0.205 \text{ m}}}$$

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(31)

$$\text{Dif en Longitud} = 20 + 50 = 70^\circ$$

$$\text{Dif en latitud} = 30 + 25 = 55^\circ$$

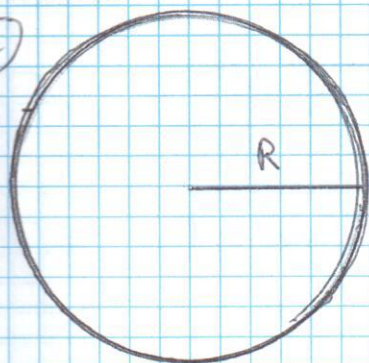
(32)

$$\frac{360^\circ}{24} = 15^\circ \rightarrow \text{Cada hora la tierra gira } 15^\circ$$

$$\frac{45}{15} = \underline{\underline{3h}} \rightarrow \text{la tierra tarda } 3h \text{ en girar } 45^\circ$$

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(97)



$$L = 10 \text{ cm}$$

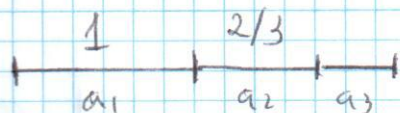
$$L = 2\pi \cdot R$$

$$R = \frac{L}{2\pi} = \frac{10}{2 \cdot 3.14} = 1.6 \text{ cm}$$

$$A = \pi R^2 = 3.14 \cdot 1.6^2 = \underline{\underline{8 \text{ cm}^2}}$$

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(100)



Progresión geométrica

$$r = \frac{a_2}{a_1} = \frac{2/3}{1} = \frac{2}{3} \quad \parallel \quad \underline{\underline{r = 2/3}}$$

La distancia recorrida será igual a la suma de los 7 primeros términos

$$S_n = \frac{a_1 (r^n - 1)}{r - 1} \quad \parallel \quad S_7 = \frac{1 \left(\left(\frac{2}{3} \right)^7 - 1 \right)}{\frac{2}{3} - 1} = \frac{1 (0.525 - 1)}{-0.333} = \frac{-0.475}{-0.333} = \underline{\underline{2.83 \text{ m}}}$$