

$$q = \sqrt[k+1]{\frac{b}{a}}$$

1/1

$$a, x_1, x_2, \dots, x_k, b$$

$$x_1 = a q$$

$$b = a q^{k+1}$$

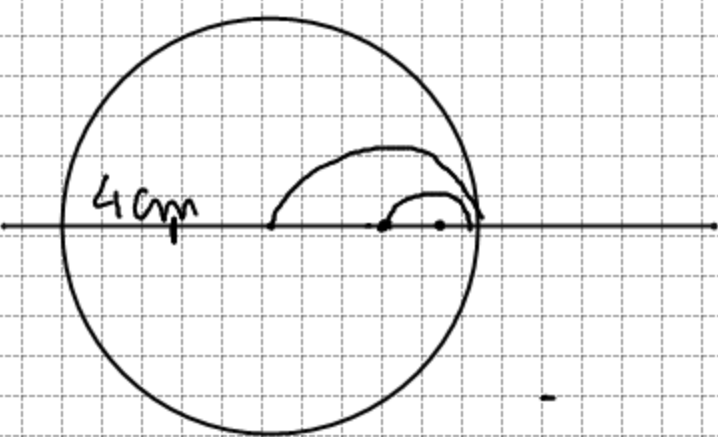
$$x_2 = x_1 q = a q^2$$

$$q = \sqrt[k+1]{\frac{b}{a}}$$

$$x_3 = x_2 q = a q^3$$

$$x_k = a q^k$$

ES. N. 496 PAG. 144



$$r_1 = 4 \text{ cm}$$

$$r_2 = \frac{r_1}{2}$$

$$r_3 = \frac{r_1}{2^2}$$

$$r_4 = \frac{r_1}{2^3}$$

$$r_{m+1} = \frac{r_1}{2^m}$$

$$C_1 = \pi r_1$$

$$C_2 = \frac{r_1}{2} \pi$$

$$C_3 = \frac{r_1}{2^2} \pi$$

$$C_4 = \frac{r_1}{2^3} \pi$$

$$C_m = \frac{r_1}{2^m} \pi$$

$$\frac{C_2}{C_1} = \frac{\frac{r_1}{2} \pi}{\pi r_1} = \frac{r_1}{2} \cdot \frac{1}{r_1} = \frac{1}{2}$$

$$\frac{C_3}{C_2} = \frac{\frac{r_1}{2^2} \pi}{\frac{r_1}{2} \pi} = \frac{r_1}{2^2} \cdot \frac{2}{r_1} = \frac{1}{2}$$

$$\frac{C_4}{C_3} = \frac{\frac{r_1}{2^3} \pi}{\frac{r_1}{2^2} \pi} = \frac{r_1}{2^3} \cdot \frac{2^2}{r_1} = \frac{1}{2}$$

$$\frac{C_{k+1}}{C_k} = \frac{\frac{r_1}{2^k} \pi}{\frac{r_1}{2^{k-1}} \pi} =$$

$$2 = \underbrace{2 \cdot 2 \cdot \dots \cdot 2}_{k \text{ volte}} \cdot 2 = 2^k$$

$$2^3 = 2 \cdot 2 \cdot 2$$

$$= \frac{r_1 \pi}{2^k} \cdot \frac{2^{k-1}}{r_1 \pi} = \frac{1}{2}$$

$$S_5 = 4 \pi \frac{\left(\frac{1}{2}\right)^5 - 1}{\frac{1}{2} - 1}$$

$$S_5 = 4 \pi \frac{\frac{1}{32} - 1}{-\frac{1}{2}}$$

$$S_5 = \left(\frac{1}{32} - 1\right) (-8\pi)$$

$$S_5 = \left(\frac{1 - 32}{32}\right) (-8\pi)$$

$$S_5 = \left(\frac{-31}{32}\right) \left(-\frac{8\pi}{4}\right)$$

$$S_5 = \frac{31}{4} \pi$$

$$\frac{A}{2} = \frac{\pi r^2}{2}$$

$$A_1 = \frac{\pi}{2} r_1^2$$

$$A_2 = \frac{\pi}{2} r_2^2 = \frac{\pi}{2} \left(\frac{r_1}{2}\right)^2 = \frac{\pi r_1^2}{2^3}$$

$$A_3 = \frac{\pi}{2} r_3^2 = \frac{\pi}{2} \left(\frac{r_1}{2^2}\right)^2 = \frac{\pi r_1^2}{2^5}$$

$$q = \frac{1}{4}$$

$$A_4 = \frac{\pi}{2} r_4^2 = \frac{\pi}{2} \left(\frac{r_1}{2^3}\right)^2 = \frac{\pi r_1^2}{2^7}$$

$$A_h = \frac{\pi r_1^2}{2^{2h+1}}$$