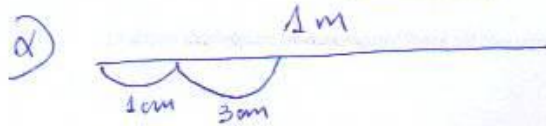


4629



$$\alpha_1 = 1, \alpha_2 = 3, \omega = 2$$

$$\alpha_v = 1 + (v-1) \cdot 2 \Leftrightarrow \boxed{\alpha_v = 2v-1}$$

$$\beta) \sum_5 = \frac{5}{2} (2 + 4 \cdot 2) = 25 \text{ cm}$$

$$\gamma) \sum_v = 100 \Leftrightarrow \frac{v}{2} (2 + (v-1) \cdot 2) = 100$$

$$\Leftrightarrow \frac{v}{2} \cdot 2v = 100 \Leftrightarrow v = 10$$

$$\delta) (i) \beta_1 = 1, \beta_2 = 2, \beta_3 = 4 \quad \lambda = 2$$

$$\beta_v = 2^{v-1}$$

$$(ii) \sum_{a_v} + 1 + \sum_{\beta_v} = 100$$

$$\frac{v}{2} (2 + (v-1) \cdot 2) + 1 \frac{2^v - 1}{2 - 1} = 99$$

$$v^2 + 2^v - 1 = 99$$

$$v^2 + 2^v = 100$$

$$v = 6$$