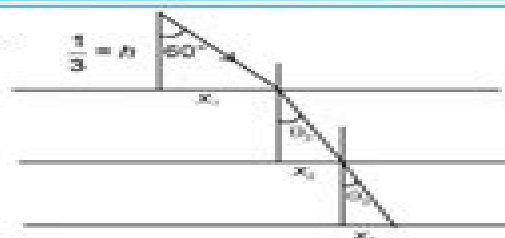


Sol.



$$x_1 = \frac{1}{3} \times \tan 60^\circ = \frac{1}{\sqrt{3}} \text{ cm}$$

$$\text{and, } 1 \times \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{2} \times \sin \theta_2$$

$$\Rightarrow \theta_2 = 45^\circ$$

$$\Rightarrow x_2 = d$$

$$\text{and, } 1 \times \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{2} \times \sin \theta_2$$

$$\Rightarrow \theta_2 = 30^\circ$$

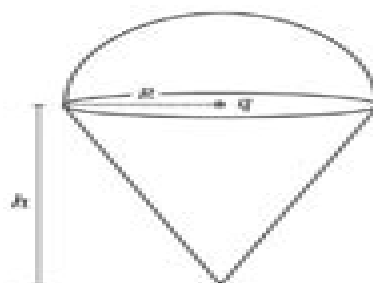
$$\Rightarrow x_3 = \frac{d}{\sqrt{3}}$$

$$\therefore x_1 + x_2 + x_3 = \frac{1}{\sqrt{3}} + \frac{(\sqrt{3}-1)}{2} \left(1 + \frac{1}{\sqrt{3}}\right)$$

$$= \frac{2}{\sqrt{3}} \text{ cm}$$

$$\therefore n = \frac{l}{x_1 + x_2 + x_3} = \frac{8/\sqrt{3}}{2/\sqrt{3}} = 4$$

6. A charge q is surrounded by a closed surface consisting of an inverted cone of height h and base radius R , and a hemisphere of radius R as shown in the figure. The electric flux through the conical surface is $\frac{nq}{6\epsilon_0}$ (in SI units). The value of n is _____.



Answer (3)

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web jul 21 2021 both animals can produce vocalizations to communicate but since whales communicate mostly underwater

you might not be as familiar with their sounds as compared to those distinct clicks or whistles more commonly heard from dolphins dolphins also have the ability to echolocate where baleen whales do not food for thought

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