

27/10/2020
TUESDAY

MATHEMATICS

STD-X
class-50

Assignment

1) Find the area of an equilateral triangle of side 7 cm.

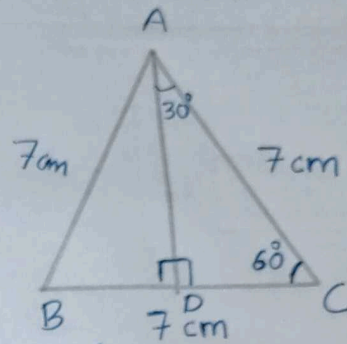
Ans)

Consider $\triangle ABC$,

$$AC = 7 \text{ cm}$$

$$AB = 7 \text{ cm}$$

$$BC = 7 \text{ cm}$$



\therefore Area of an equilateral triangle = $\frac{\sqrt{3}}{4} a^2$

$a = \text{side}$

$$= \frac{\sqrt{3}}{4} \times 7^2$$

$$= \frac{\sqrt{3}}{4} \times 49$$

$$= \frac{49\sqrt{3}}{4} \text{ cm}^2$$