

10/11/2020
TUESDAY

MATHEMATICS

STD-8
class-57

Assignment

- 1) If one side of a triangle is 4 cm and angles on both ends of that side are 80° and 70° respectively.
- Find the measure of the third angle.
 - Find the circumradius.
 - Find the measure of other two sides.

Ans) a) $\angle A = 80^\circ$
 $\angle B = 70^\circ$ $\therefore \angle C = 180 - (80 + 70)$
 $\angle C = \underline{\underline{30^\circ}}$

b) side BC = $2r \sin 80^\circ$
 $= 2 \times r \times 0.9848$
 $\therefore r = 2 \times 0.9848$
 $= 1.96$ Circumradius = 2 cm
 $\therefore r = \underline{\underline{2 cm}}$

c) $\therefore BC = 2r \sin 80$
 $= 2 \times 2 \times 0.9848$
 $= 4 \times 0.9848 = \underline{\underline{3.93 cm}}$

$AC = 2r \sin 70$
 $= 2 \times 2 \times 0.9397$
 $= \underline{\underline{3.75 cm}}$

