HOTS QUESTIONS

1.Exterior angles of a regular polygon is one third of its interior angle.Find number of sides in polygon.

2.In Δ ABC ,$2\angle A = 3\angle B = 6\angle C$, find $\angle A$,$\angle B$,and $\angle C$.

3.Prove that sum of all exterior angles of any polygon is 360

4.In the given figure, bisector of the exterior angles B and C of by producing sides AB and AC of

Δ ABC intersect each other at the point O.Prove that

$\angle BOC = 90° - \dfrac{1}{2} \angle A.$