



$\triangle ABC$, $OD \perp BC$, $OE \perp AC$ and $OF \perp AB$. Show that:

- (i) $OA^2 + OB^2 + OC^2 - OD^2 - OE^2 - OF^2 = AF^2 + BD^2 + CE^2$,
 (ii) $AF^2 + BD^2 + CE^2 = AE^2 + CD^2 + BF^2$.

Solution:

Given, in $\triangle ABC$, O is a point in the interior of a triangle.

And $OD \perp BC$, $OE \perp AC$ and $OF \perp AB$.

Join OA , OB and OC



(i) By Pythagoras theorem in $\triangle AOF$, we have

$$OA^2 = OF^2 + AF^2$$

Similarly, in $\triangle BOD$

$$OB^2 = OD^2 + BD^2$$

Similarly, in $\triangle COE$

$$OC^2 = OE^2 + EC^2$$

Adding these equations,

Chapter 6 Triangles

Charles Godfrey, Arthur Warry Siddons

Chapter 6 Triangles:

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