



$\triangle ABC$ ,  $OD \perp BC$ ,  $OE \perp AC$  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

**Henry Nathan Wheeler**



## Chapter 6 Triangles:

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