



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

John Bascombe Lock



Chapter 6 Triangles:

Adopting the Song of Expression: An Emotional Symphony within **Chapter 6 Triangles**

In a global eaten by screens and the ceaseless chatter of immediate transmission, the melodic beauty and emotional symphony created by the prepared term usually disappear in to the background, eclipsed by the persistent sound and disturbances that permeate our lives. However, nestled within the pages of **Chapter 6 Triangles** an enchanting literary value filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that interesting masterpiece conducts readers on a psychological trip, skillfully unraveling the concealed songs and profound impact resonating within each carefully constructed phrase. Within the depths with this poignant analysis, we shall discover the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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