



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

**Lauren Gardner**



## Chapter 6 Triangles:

**CBSE Class 10 Mathematics - Quick Revision Notes** Mr sanjay jeswani,2026-02-08 Table of Contents 1 Real Numbers 2 Polynomials 3 Pair of Linear Equations in Two Variables 4 Quadratic Equations 5 Arithmetic Progressions 6 Triangles 7 Coordinate Geometry 8 Introduction to Trigonometry 9 Trigonometric Identities 10 Trigonometric Equations 11 Heights and Distances 12 Circles 13 Constructions 14 Areas Related to Circles 15 Surface Areas and Volumes 16 Statistics 17 Probability MATHEMATICS CLASS NOTES KARUNANITHI RAJAMANICKAM,2026-03-02 MATHEMATICS CLASS NOTES GRADE X CBSE This book is a structured and exam focused companion designed specifically for students preparing for the CBSE Class X Mathematics examination It presents the complete syllabus in a clear concise and systematically organized format suitable for quick revision classroom reinforcement and self study Each chapter is arranged to support conceptual clarity and problem solving mastery Core topics are broken down into well defined sub sections ensuring that students understand the logical flow of ideas Important theorems identities properties and standard results are highlighted for rapid recall during examinations The book includes Chapter wise structured notes aligned with the CBSE syllabus Step by step explanations of key concepts Important formulas and identities compiled for quick reference Standard results and theorems clearly stated and emphasized Concept based examples to strengthen application skills Simplified revision sections for last minute preparation Special emphasis is placed on building strong fundamentals in algebra geometry trigonometry mensuration statistics and probability The content is designed to help students develop analytical thinking accuracy and speed essential qualities for board examinations This edition serves as both a classroom support text and a compact revision guide making it ideal for continuous assessment preparation pre board examinations and final board exam revision Clear presentation structured organization and exam oriented coverage make this book a reliable resource for achieving excellence in CBSE Class X Mathematics *Oswaal NCERT Textbook Solution Class 10 Science & Mathematics | Set of 2 Books | For Latest Exam* Oswaal Editorial Board,2024-03-30 Description of the product 100 % Updated as per latest textbook issued by NCERT Crisp Revision with Concept wise Revision Notes Mind Maps and Mnemonics Visual Learning Aids with theoretical concepts and concept videos Complete Question Coverage with all Intext questions and Exercise questions Fully solved *Mathematics* ,2025-11-24 Chapter wise Question Bank for 2025 26 Aligned with NEP 2020 and UP Board s Latest Curriculum Exam Pattern Marks Distribution **Merrill Informal Geometry: Teacher annotated ed** Jerry Cummins,1988 **Schaum's Outline of Geometry, 4ed** Barnett Rich,Christopher Thomas,2008-08-31 Schaum s has Satisfied Students for 50 Years Now Schaum s Biggest Sellers are in New Editions For half a century more than 40 million students have trusted Schaum s to help them study faster learn better and get top grades Now Schaum s celebrates its 50th birthday with a brand new look a new format with hundreds of practice problems and completely updated information to conform to the latest developments in every field of study Schaum s Outlines Problem Solved More than 400 000 sold This review of standard

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