

Objectives 3 — Trigonometry

After covering this section, you should be able to:

- recognise the different types of angle
- understand radians and convert between radians and degrees
- use the formula for the sum of the angles of a triangle
- use Pythagoras' theorem for the lengths of the sides of a right-angled triangle
- define the sine, cosine and tangent of an acute angle
- appreciate the extension of the definition of sine, cosine and tangent to general angles
- state and use the most important trigonometric identities
- state and use the sine rule for a triangle
- state and use the cosine rule for a triangle
- solve a triangle given sufficient information about its sides and angles

The material in this section is largely contained in Chapters 5 and 7 of MB; more precisely, we cover material from sections 5.1, 5.3, 7.1, 7.2 and 7.4.

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