

THE COSINE LAW* WORD PROBLEMS

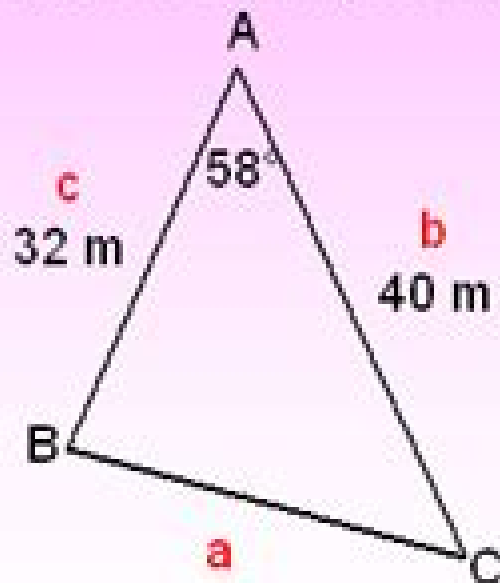
$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

EXAMPLE 1

A triangular lot sits at the corner of two streets that intersect at an angle of 58° . One street side of the lot is 32 m and the other is 40 m. How long is the back of the lot (the third side), to the nearest metre?



$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$a^2 = (40)^2 + (32)^2 - 2(40)(32) \cos 58^\circ$$

$$a^2 = \underline{1600 + 1024} - \underline{2(40)(32)(0.5299)}$$

$$a^2 = 2624 - 1356.544$$

$$a^2 = 1267.456$$

$$\sqrt{a^2} = \sqrt{1267.456}$$

$$a = 36 \text{ m}$$

The back of the lot is **36 metres**

Law Of Cosines Word Problems And Answers

Alexander Karp, Nicholas Wasserman



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