

# Law of Cosines: Question 1

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To find  $b$ , we must use the law of cosines.

$$b^2 = 16^2 + 11^2 + (16 * 11 * \cos(33^\circ)) \quad (1)$$

$$b^2 = 256 + 121 + (172\cos(33)) \quad (2)$$

$$b = \sqrt{377 + 172\cos(33)} \approx 22.9 \quad (3)$$