

Ratios in Right Triangles

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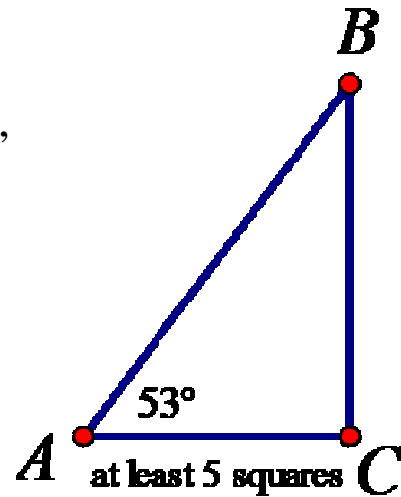
On graph paper, with a protractor, draw a right triangle with a 53° angle and side at least 5 squares long, as shown. Label the right angle C , the 53° angle A , and the third angle B .

Measure the lengths AB , AC , and BC .

Compute the ratio BC/AC to the nearest 0.001.

BC/AC
1.33 ish

All such Δ s are similar



You're standing 55 feet back from the school, and you notice that the edge of the roof is at a 53° angle upwards. How tall is the building?

$$1.33 = \frac{BC}{55} \Rightarrow BC = 55 \cdot 1.33$$

75.15

