

Explore Triangle Congruence Worksheets

1. Draw three nonidentical triangles so that two angles measure 50° and 60° and one side measures 5 cm.

a) Are the triangles not identical? Does this criterion determine a unique triangle?

12 A triangle has side lengths 5 cm and 6 cm. Draw two nonidentical triangles that satisfy these conditions.

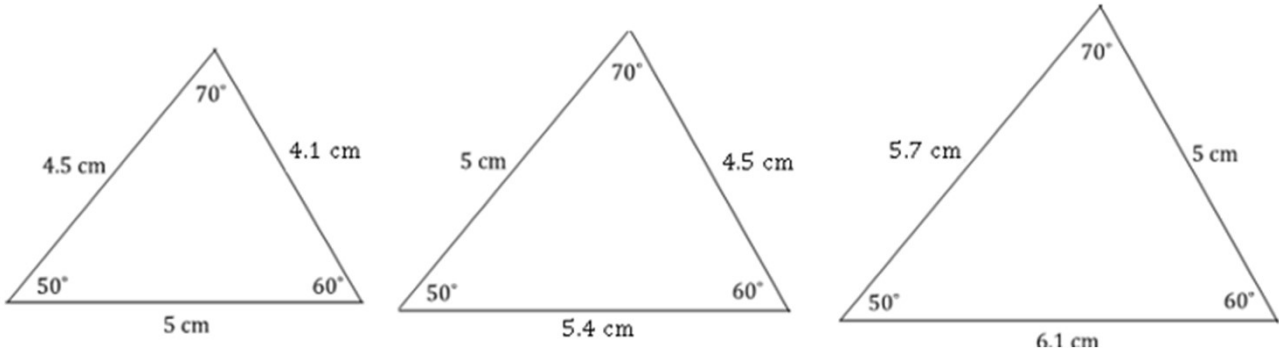
3. A triangle has a side length of 7 cm opposite a 45° angle. Draw two nonidentical triangles that satisfy these conditions.

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a) Are the triangles not identical? Does this criterion determine a unique triangle?



No, it is possible to draw nonidentical triangles that all have the same three angle measurements but have different corresponding side lengths.

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3. A triangle has a side length of 7 cm opposite a 45° angle. Draw two nonidentical triangles that satisfy these conditions.