

Finding Congruent Triangles (revisited)

1.

Amy says:	I have drawn a triangle. It has one angle of 70° and another angle of 50° . Ben, you draw a triangle with the same two properties.
Ben says:	My triangle will be congruent to yours, because <i>all</i> triangles that have those two properties must be congruent.

Is Ben correct to say that all triangles with these two properties must be congruent?

Explain your answer.

2.

Sara says:	I have drawn a triangle. It has one angle of 60° and one side 2 inches long. Sanjay, you draw a triangle with the same two properties.
Sanjay says:	My triangle will be congruent to yours, because <i>all</i> triangles that have those two properties must be congruent.

Is Sanjay correct to say all triangles with these properties must be congruent?

Explain your answer.

3.

Burt says: I have drawn a triangle.
One side is 1" long, and it has angles of 90° and 20° .
Max, you draw a triangle with the same two properties.

Max says: My triangle will be congruent to yours, because *all* triangles that have those three properties must be congruent.

Is Max correct to say that all triangles with these properties must be congruent?

Explain your answer.