

Triangles: Same Or Different

Make each of the triangles described below. Decide if the information will produce no triangles, exactly one triangle, or more than one triangle. Sketch the possibilities.

1.

Angles	Sides
$A = 80^\circ$	
$B = 60^\circ$	
$C = 40^\circ$	

2.

Angles	Sides
	$AB = 6$
	$BC = 2$
	$AC = 9$

3.

Angles	Sides
$A = 20^\circ$	$AB = 8$
	$AC = 10$

4.

Angles	Sides
$A = 110^\circ$	$AC = 5$
$B = 50^\circ$	

Triangles: Same Or Different

Make each of the triangles described below. Decide if the information will produce no triangles, exactly one triangle, or more than one triangle. Sketch the possibilities.

5.

Angles	Sides
$C = 70^\circ$	$BC = 5$
	$AC = 8$

6.

Angles	Sides
$B = 50^\circ$	$AB = 7$
	$AC = 6$

7.

Angles	Sides
	$AB = 8$
	$BC = 4$
	$AC = 10$

8.

Angles	Sides
$A = 20^\circ$	$BC = 4$
$B = 30^\circ$	