

**When solving triangles given SSA, there are three possibilities: 1) No triangles can be formed, 2) One triangle can be formed, 3) Two triangles can be formed.**

**Example 1**

Work

<u>Angles</u>	<u>Sides</u>
$A = 55^\circ$	$a = 7\text{cm}$
$B =$	$b =$
$C =$	$c = 25\text{cm}$

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**Example 2**

Work

<u>Angles</u>	<u>Sides</u>
$A = 55^\circ$	$a = 27\text{in}$
$B =$	$b =$
$C =$	$c = 25\text{in}$

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**Example 3**

Work

<u>Angles</u>	<u>Sides</u>
$A = 55^\circ$	$a = 22\text{m}$
$B =$	$b =$
$C =$	$c = 25\text{m}$

For the problems below, determine if there are 0, 1, or 2 possible triangles.

4.) Work

<u>Angles</u>	<u>Sides</u>
$A = 65^\circ$	$a = 12\text{ft}$
$B =$	$b =$
$C =$	$c = 11\text{ft}$

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5.) Work

<u>Angles</u>	<u>Sides</u>
$A = 65^\circ$	$a = 8\text{cm}$
$B =$	$b =$
$C =$	$c = 11\text{cm}$

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6.) Work

<u>Angles</u>	<u>Sides</u>
$A = 65^\circ$	$a = 10\text{mm}$
$B =$	$b =$
$C =$	$c = 11\text{mm}$

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7.) Work

<u>Angles</u>	<u>Sides</u>
$A = 65^\circ$	$a = 20\text{in}$
$B =$	$b =$
$C =$	$c = 11\text{in}$