

Refer to your Trig Identities sheet for the **Law of Sines** and **Triangle Area**

When given **SSA** (side a – side b – angle A), use **Law of Sines** to find the rest

Special Note – SSA is the ambiguous case because the given information may be describing one triangle, two triangles, or no triangle.

(See the Geogebra animation at <https://www.geogebra.org/m/CvtkyRMS>)

$$\text{height (h)} = (\sin A)(b)$$



One Triangle – the given angle is obtuse or acute; $a > b$ or $h = a$ (right triangle)

Two Triangles – the given angle is acute and $h < a < b$

No Triangle – the given angle is obtuse or acute and $h > a$

Examples:

1. State whether the given measurements determine zero, one, or two triangles. Then, solve the triangle(s), if any. $\angle A = 105^\circ$, $a = 13$ and $b = 6$.

obtuse
1 or 0 triangles

$a > b$
1 triangle



$$\frac{\sin 105}{13} = \frac{\sin B}{6}$$

$$\angle B = 26.5^\circ$$

$$\angle C = 180 - 26.5 - 105 = 48.5^\circ$$

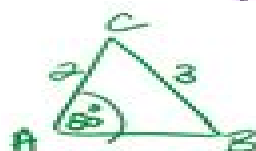
$$\frac{\sin 105}{13} = \frac{\sin 48.5}{c}$$

$$c = 10.4$$

2. State whether the given measurements determine zero, one, or two triangles. Then, solve the triangle(s), if any. $\angle A = 50^\circ$, $a = 3$ and $b = 2$.

acute

$a > b$
1 triangle



$$\frac{\sin 50}{3} = \frac{\sin B}{2}$$

$$\angle B = 30.7^\circ$$

$$\angle C = 180 - 30.7 - 50 = 99.3^\circ$$

$$\frac{\sin 50}{3} = \frac{\sin 99.3}{c}$$

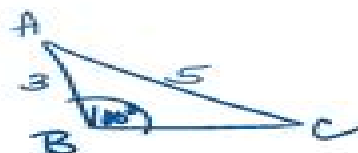
$$c = 3.9$$

3. State whether the given measurements determine zero, one, or two triangles. Then, solve the triangle(s), if any. $\angle B = 100^\circ$, $b = 5$ and $c = 3$.

obtuse

match

$b > c$
1 triangle



$$\frac{\sin 100}{5} = \frac{\sin C}{3}$$

$$\angle C = 36.2^\circ$$

$$\angle A = 180 - 36.2 - 100 = 43.8^\circ$$

$$\frac{\sin 100}{5} = \frac{\sin 43.8}{a}$$

$$a = 3.5$$

Alg 2 Trig Answer Key

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