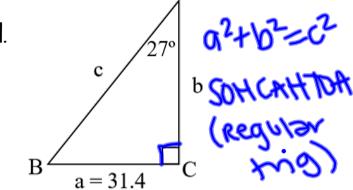
6.2 LOW OF SINCS

Warm-UP TUESday

I.



Write HOW you would solve each of the given triangles.

2.
$$p = 15$$
, $q = 19$, $r = 43$

3. What does "solving a triangle"

even mean?? wissi

About MC

I. Would you rather be drowned or burned alive?

2. Would you rather be president of the US or king/queen of England?

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Profile Law of Casines OMMCN+S, CONCERNS?

Solve for the length of the missing side of each triangle. Round your answer to the nearest tenth.

1.
$$m \angle = 113^{\circ}$$
, $a = 13$, $b = 23$

2.
$$m\angle A = 32^{\circ}$$
, $b = 23$, $c = 47$

Solve each triangle for the specified angle measure. Round your answer to the nearest degree.

3.
$$a = 11$$
, $b = 14$, $c = 17$; $m\angle A$

Solve each \triangle PQR. Round lengths to the nearest tenth, and angles to the nearest degree.

5.
$$m\angle P = 83^{\circ}$$
, $r = 43$, $q = 51$



$$260 = 200 = 410, r = 280$$

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6.2 LOW OF SINCS

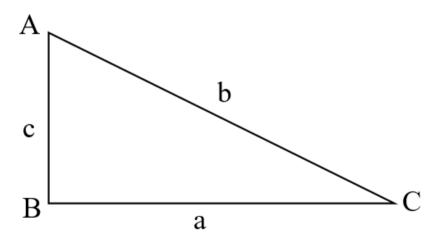
FO: How do I use the law of sines to solve oblique triangles?

In
$$\triangle ABC$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

OR

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

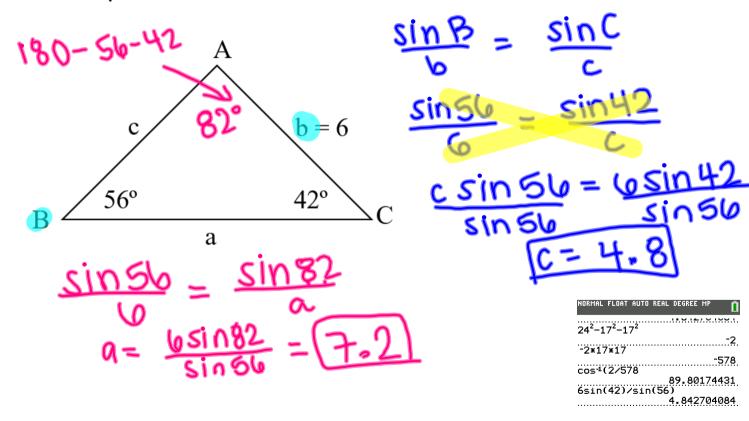


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6.2 LOW OF SINCS

FO: How do I use the law of sines to solve oblique triangles?

Example 1 - Find a and c.



6.2 LOW OF SINES

FO: How do I use the law of sines to solve oblique triangles?

Example 2 - Given: In $\triangle ABC$, a = 6, $m \angle B = 60^{\circ}$, $m \angle C = 42^{\circ}$. Find b.

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. How do I use the law of sines to solve oblique triangles?

Solve each triangle PQR. Give angles to the nearest degree and sides to the nearest tenth.

3.
$$p = 24$$
, $m\angle Q = 51^{\circ}$, $m\angle R = 38^{\circ}$

$$\angle Q = 51^{\circ}$$
 $Q = 18.7$
 $\angle R = 38^{\circ}$ $r = 14.8$

PreCalculus Unit 6 2 HW_Law_of_Sines_1.doc & Cosines

6.2 Law of Sines

Name

Solve each triangle for the indicated side to the nearest tenth.

1.
$$m\angle A = 41^{\circ}$$
, $m\angle B = 57^{\circ}$, $c = 52$; find b

2.
$$m\angle A = 35^{\circ}$$
, $m\angle B = 56^{\circ}$, $a = 51$; find c

Solve each triangle PQR. Give angles to the nearest degree and sides to the nearest tenth.

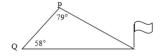
3.
$$p = 24$$
, $m\angle Q = 51^{\circ}$, $m\angle R = 38^{\circ}$

4.
$$q = 48$$
, $m\angle P = 63^{\circ}$, $m\angle R = 51^{\circ}$

5.
$$q = 75$$
, $m\angle P = 42^{\circ}$, $m\angle R = 20^{\circ}$

Solve the following word problem. Give sides to the nearest tenth.

6. From two points P and Q that are 140 ft apart, the lines of sight to a flagpole across a river make angles of 79° and 58° respectively, with the line joining P and Q. What are the distances from P and Q to the flagpole?



6.2 LOW OF SINES

FO: How do I use the law of sines to solve oblique triangles?

CLOSING

ON CLASSROOM

6.2 LOW OF SINCS

FO: How do I use the law of sines to solve oblique triangles?

CLOSING

Solve each triangle PQR. Give angles to the nearest degree and sides to the nearest tenth.

10.
$$q = 75$$
, $m\angle P = 42^{\circ}$, $m\angle R = 20^{\circ}$