7-3 Solving Right Triangles

Objectives:

7-3a: I can solve a right triangle by finding all angles and sides

Solve a right triangle means to determine the measure of all three angles and all three sides.

- Trig ratios son can too sides/angles
 Pythagorean theorem legitles = hip sides
 Sum of all angles is 180 degrees = angles

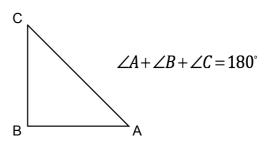
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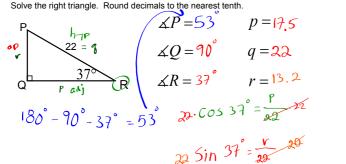
Solves for side length Solves for angles

$$sin\left(\frac{opp}{hyp}\right) \qquad m\angle A = sin^{-1}\left(\frac{opp}{hyp}\right) \\
cos\left(\frac{adj}{hyp}\right) \qquad m\angle A = cos^{-1}\left(\frac{adj}{hyp}\right) \\
(opp) \qquad (opp) \qquad (opp) \qquad (opp) \qquad (opp) \\$$

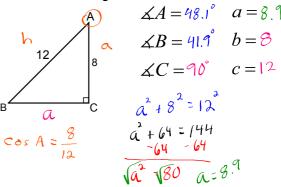
Pythagorean Theorem $a^2 + b^2 = c^2$ "a" and "b" are sides "c" is always the hypotenuse



Solve the right triangle. Round decimals to the nearest te



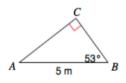
Solve the Triangle



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Solve the Triangle



$$\angle A = a =$$

$$\angle B = b =$$

$$\angle C = c =$$