

Normal Precalc Quiz: Trig Ratios RETAKE

You have 40 Minutes to complete this quiz. You may use your notes as reference, and a calculator. You may NOT work with your peers, or look up answers outside of your class notes. You must show work in order to receive credit. Ask questions if you get stuck. Good luck and godspeed!

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* Required

Name (First and Last): *

Your answer

Period: *

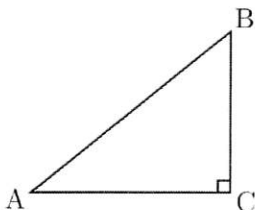
2

6

7

1) Questions 1-A and 1-B refer to this picture:

In $\triangle ABC$, $\angle C$ is a right angle. Use the given measurements to **a)** all the missing side lengths, **b)** find all five trig ratios of angle A, and **c)** both of the missing angle measures of $\triangle ABC$. Keep exact answers for part a) and b). Round to the nearest tenth for part c).



1-A) Find the missing side lengths of the triangle given that the $\cos(A) = \frac{3}{5}$. (Hint: Sketch the triangle and fill in the sides on your paper) 2 points

Your answer

1-B) Select the trig ratios from the list below that are the correct trig ratios for angle A: (There is one correct answer for each trig function) 3 points

$\sin(A) = \frac{\sqrt{34}}{5}$

$\sin(A) = \frac{3}{5}$

$\sin(A) = \frac{4}{5}$

$\sec(A) = \frac{\sqrt{34}}{5}$

$\sec(A) = \frac{3}{5}$

$\sec(A) = \frac{5}{3}$

$\tan(A) = \frac{\sqrt{34}}{3}$

$\tan(A) = \frac{3}{4}$

$\tan(A) = \frac{4}{3}$

2) The Secant is the inverse function of the cosine. 1 point

True

False

3) Triangle ABC is a right triangle and the measure of angle A is 45 degrees. Select all of the following answers that are correct:

4 points

- The $\sin(A) = \sqrt{2}/2$
- The $\sin(A) = \sqrt{3}/2$
- The $\sin(A) = 2/2$
- The third angle in the triangle is 60 degrees
- The third angle in the triangle is 45 degrees
- The $\cos(A) = 1/2$
- The $\cos(A) = \sin(A)$
- The $\cos(A) = \sqrt{3}/3$
- The $\tan(A) = 1/2$
- The $\tan(A) = 1$
- The $\tan(A) = \text{Doesn't Exist}$

EC Question (2 points): What is the difference between the arccos (\cos^{-1}) and the secant?

Your answer

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