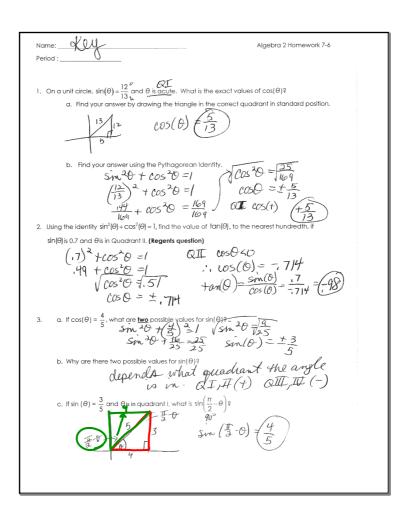
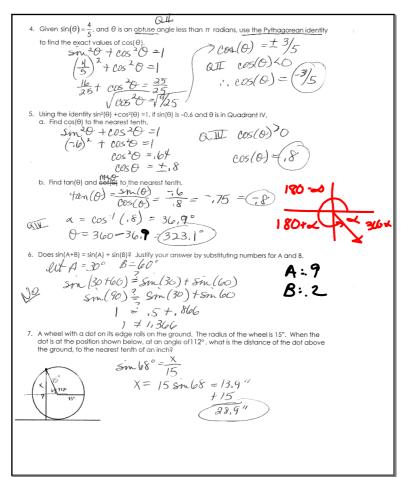
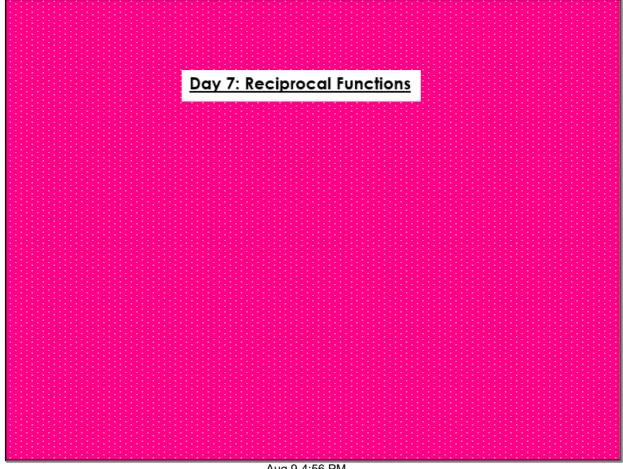
Homework 7-6

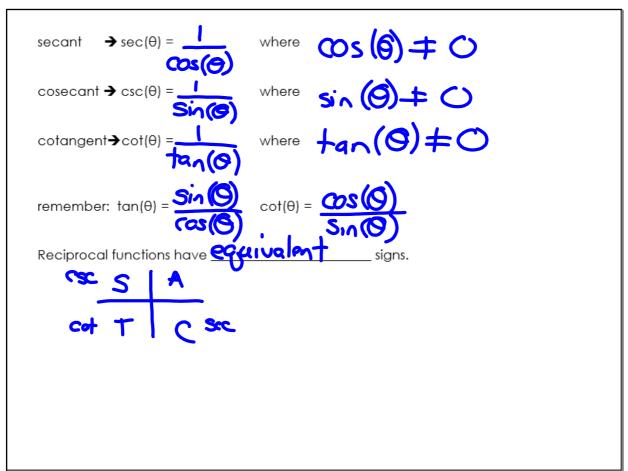
- 1a. 5/13 b. 5/13
- 2. -0.98
- 3a. $\pm 3/5$ b. Depends on what quadrant θ is in. c. 4/5
- 4. -3/5
- 5a. 0.8 b. -0.8, 323.1°
- 6. No. ex: $\sin(90) \neq \sin(30) + \sin(60)$, $1 \neq 1.366$
- 7. 28.9"

Aug 13-8:03 PM









Aug 9-4:57 PM

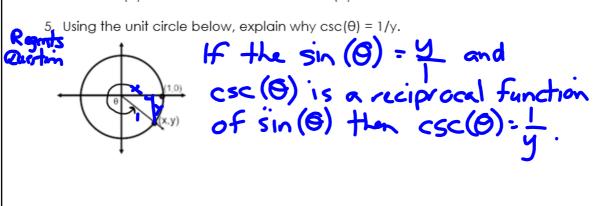


- 1. If sin(A) = 3/5, then $csc(A) = \frac{5/3}{3}$
- 2. If tan(A) = 17/12, then cot(A) = 12/17
- 3. a. If cos(A) = -6/9, then sec(A) = ________
 - b. What quadrant(s) could angle A be in?
- 4. If cos(A) > 0, which must always be true?
 - a. sin(A) > 0

c. sec(A) > 0

b. tan(A) > 0

d. csc(A) > 0



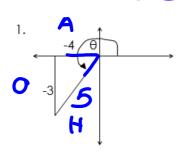
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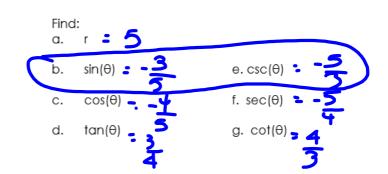
Finding Trig Values:

The value of a specific function can be found if you know:

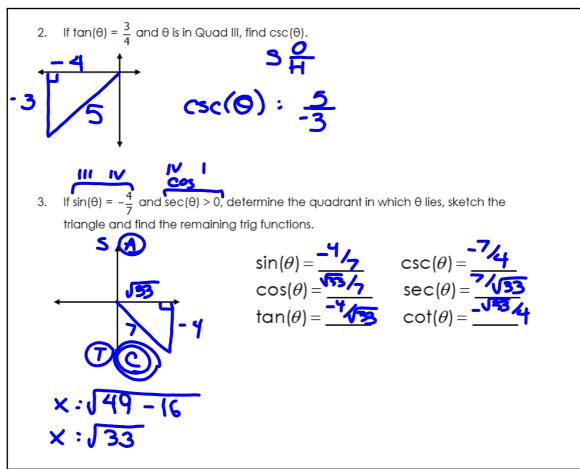
- a. coordinates of a point on the terminal side
 OR
- b. another function value & quadrant in which the angle lies.

Note: r = radius of the circle (and hypotenuse), and the radius will always be positive.

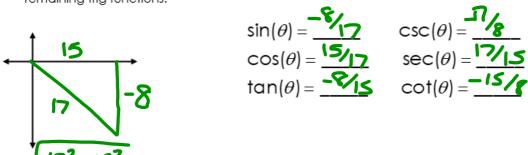




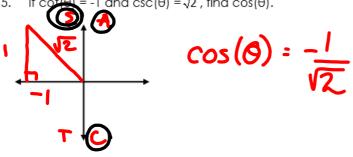
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and $\boldsymbol{\theta}$ lies in quadrant IV, sketch the triangle and find the remaining trig functions.

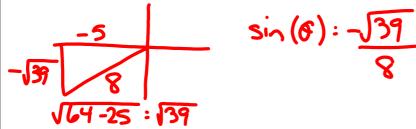


1 and csc(θ) = $\sqrt{2}$, find cos(θ).

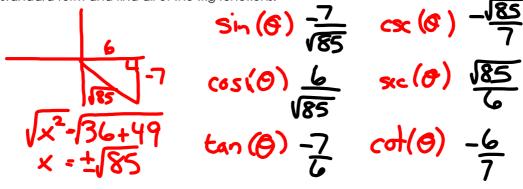


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6. If the radius of a circle is 8, $\angle \theta$ is in quadrant III, and the x-coordinate of a point on the terminal side of $\angle \theta$ is -5, find the sin (θ).

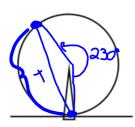


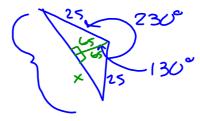
7. If the terminal side of $\angle \theta$ passes throught the point (6, -7), sketch the angle in standard form and find all of the trig functions.

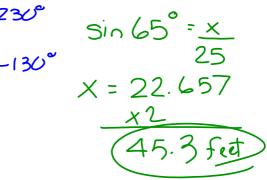


Application Word Problem:

A passenger boards a Ferris wheel ride directly below the center. The wheel has a radius of 25 feet. His friend takes a picture of him when the wheel has rotated 230° counterclockwise. What is the straight-line distance of the man from his starting position when the picture was taken, rounded to the nearest tenth?







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