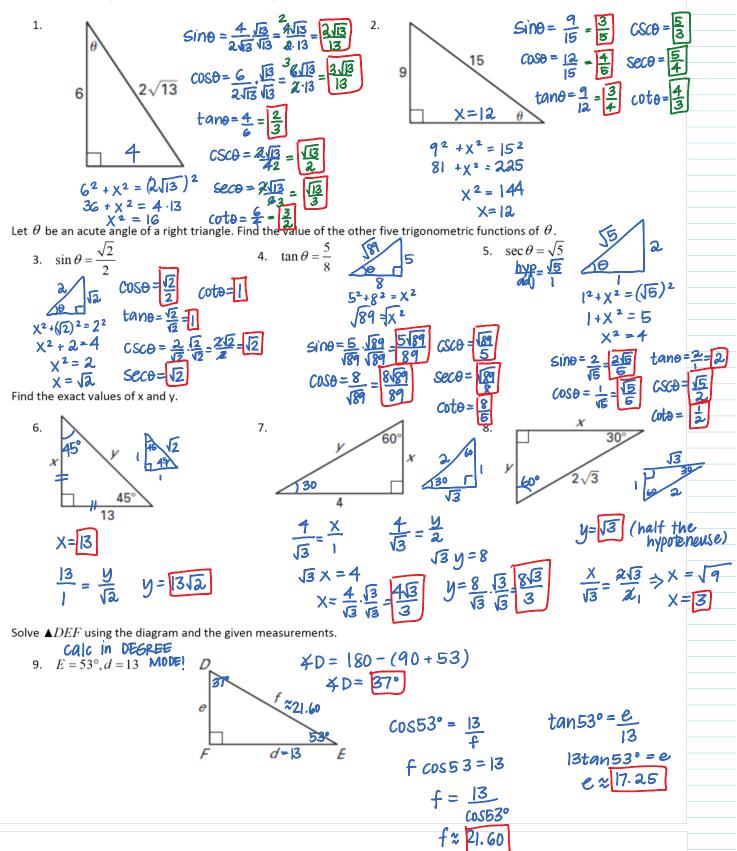
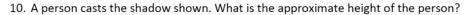
13.1-13.2 Review
Thursday, May 01, 2014 2:33 PM
2.22 hW

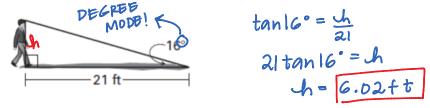
Advanced Algebra with Trig 13.1 – 13.2 Review

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Name: Key
Period:
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Evaluate the six trigonometric functions of the angle  $\theta$ .

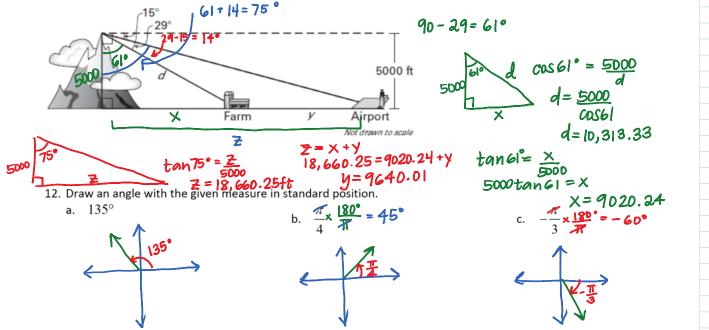






11. A hiker at the top of a mountain sees a farm and an airport in the distance.

- a. What is the distance d from the hiker to the farm? [0, 313.33 ft
- b. What is the distance y from the farm to the airport? 9640.01 ft



**COS53°** 

21.60

d.  $-\frac{7\pi}{6}$   $2\pi \cdot \frac{6}{6} = \frac{12\pi}{6}$ 

 $-\frac{7\pi}{6} + \frac{12\pi}{6} = \frac{5\pi}{6}$  $-\frac{7\pi}{6} - \frac{12\pi}{6} = -\frac{19\pi}{6}$ 

1%

13. Find one positive angle and one negative angle that are coterminal with the given angle.

a. 90°	b. −60°	c. $\frac{3\pi}{4}$ $2\pi \cdot \frac{4}{4} = \frac{8\pi}{4}$
90° 90°	-60 -60	t. <u>4</u> <b>4 4</b>
	+ 360 - <u>360</u>	$\frac{3\Pi}{4} + \frac{8\Pi}{4} = \frac{11\Pi}{4}$
+ <u>360</u> - <u>360</u> 450° -270°	+ <u>360</u> - <u>360</u> <u>300°</u> -420°	4 4 4
• -		3T_8T5T
		31-81=-57

14. Convert the degree measure to radians or the radian measure to degrees.

a. 
$$120^{\circ} \times \frac{\pi}{180^{\circ}} = \frac{2\pi}{3}$$
 b.  $-225^{\circ} \times \frac{\pi}{4} = -\frac{5\pi}{4}$  c.  $-\frac{2\pi}{3} \cdot \frac{180}{\pi} = -120^{\circ}$  d.  $\frac{5\pi}{4} \times \frac{180^{\circ}}{\pi} = 225^{\circ}$