Intro To Trigonometry	Name:
AFM Test Review	
	Date:
1. Find two coterminal angles such th	hat $-300^\circ \leq  heta' \leq 570^\circ$ if $ heta=210^\circ$ .
2. Find two coterminal angles such the	hat $-500^\circ \leq  heta' \leq 360^\circ$ if $ heta = -87^\circ$ .
3. Find the measure of the reference	angle if $ heta =$
<b>a.</b> 210°	b315°
4. Convert each angle measurement	from degrees to radians or vice versa.
a. 220°	5. $-\frac{7\pi}{4}$
5. Find the exact values of each ques	tion if the point given is on the terminal side of $\theta$ .
a. (15, 20) $sin\theta =$	
b. (-3, 4) $cos\theta =$	
c. (-5, -12) tanθ =	
6. Find the missing function's exact value,	given $\boldsymbol{\theta}$ is an angle in standard position and lies in
the given quadrant:	
a. $tan\theta = -\frac{1}{2}$ , II , find $sin\theta$ .	
b. $sin\theta = -\frac{6}{10}$ , III, find $csc\theta$ .	
7. In which quadrant(s) can $\theta$ lie under the fo	llowing conditions? Circle the answer.
a. cosθ and tanθ have the same sign.	I II III IV
b. $\cos\theta$ and $\sin\theta$ have opposite signs.	I II III IV
8. Find the exact value of all 6 trig functions g	<b>iven</b> $(20, -99)$ is on the terminal side of $\theta$ .
$sin\theta = \_ cos\theta = \_$	$tan\theta = $
$sec\theta = \_ csc\theta = \_$	$cot\theta = $
9. Find the exact value for sin 495.	
10. Find the exact value for cos 600.	
11. Find the exact value for tan -600.	
$\therefore$ $(C - 90^{\circ})/(4 - 30^{\circ})$ and $a - 19$	Find h
• $2C = 50, 2A = 50, and a = 17$ • $(P = 63^{\circ})/R = 51^{\circ}$ and $a = 48$	Find <i>r</i> .
$n = 310 \ a = 250 \ r = 160$	Find $70$
13. A security camera sits 8 ft above the front	desk of an office building. What is the angle of
depression from the camera to a person stand	ing 10 feet away from the desk?
14. You measure the angle of elevation to an a	airplane as 56.3°. At the same time your friend, who is
400 ft. closer to a point directly beneath the pl	lane, measures the angle of elevation as 49.5°. Find the
altitude of the plane.	-