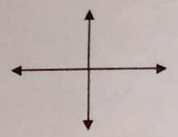
Pre-Calculus
Angles and Right Triangle Trig Review Notes

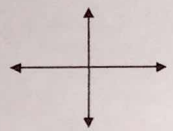
Name: _____

Draw each angle in standard position.

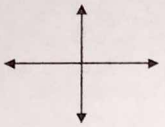
1. 40°



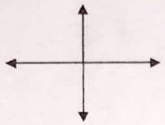
2. -150°



3. $\frac{3\pi}{4}$



4. $-\frac{\pi}{12}$



Convert from degrees to radians.

5. 330°

6. -80°

7. 36°

Convert from radians to degrees.

8. $\frac{-7\pi}{2}$

9. $\frac{3\pi}{4}$

10. $\frac{-\pi}{9}$

Find one positive coterminal angle.

11. 395°

12. -50°

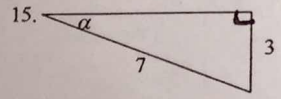
Find the complement and supplement of the following angle.

13. 52°

14. 111°

Find all six trig functions.

15.



$\sin\alpha =$ _____ $\csc\alpha =$ _____

$\cos\alpha =$ _____ $\sec\alpha =$ _____

$\tan\alpha =$ _____ $\cot\alpha =$ _____

5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. C _____
S _____
14. C _____
S _____

Find all the missing trig functions. (Draw a Picture)

16. $\sin\theta = \frac{1}{3}$

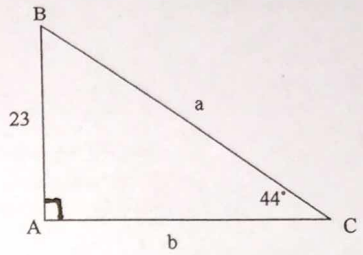
$\cos\alpha =$ _____ $\sec\alpha =$ _____

$\tan\alpha =$ _____ $\cot\alpha =$ _____

$\csc\alpha =$ _____

Solve the right triangle. Round to 2 decimal places.

17.



a = _____

b = _____

Use a calculator to evaluate the trig function. Round to 4 decimal places.

18. $\tan\frac{5\pi}{3}$

19. $\sec 45^\circ$

18. _____

19. _____

20. From a point on the ground 500 ft away from the base of a building, it is observed that the angle of elevation, from the ground to the top of the building is 24°. Find the height of the building.

20. _____

BONUS:
Find all missing trig functions.

$\sin\theta = \frac{2}{3}$ $\cos\theta = \frac{\sqrt{5}}{3}$

$\tan\alpha =$ _____

$\csc\alpha =$ _____

$\sec\alpha =$ _____

$\cot\alpha =$ _____