

Review for Chapter 6 Test (Due Tues)
Show all work for credit. 6 Points.

YOU MAY USE YOUR PINK SHEET FOR YOUR REVIEW AND FOR THE QUIZ

1. Find the reference angle for the following:

a. 225°

b. 330°

c. -45°

d. $5\pi/3$

e. $-7\pi/4$

2. Determine the quadrant of the above angles.

a. _____

b. _____

c. _____

d. _____

e. _____

3. Convert the following degrees to radians:

a. $260^\circ =$ _____

b. $480^\circ =$ _____

c. $-100^\circ =$ _____

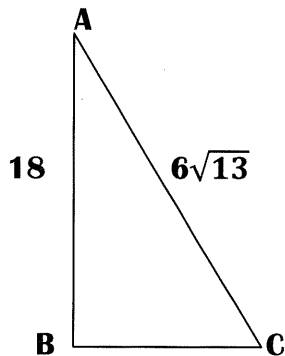
4. Convert the following radians to degrees:

a. $5\pi/9 =$ _____

b. $-4\pi/5 =$ _____

c. $7\pi/6 =$ _____

5. Use Pythagorean theorem and SOHCAHTOA to find the values of all 6 trig functions:



Sin A = _____ Csc A = _____

Cos A = _____ Sec A = _____

Tan A = _____ Cot A = _____

6. Given the following situation, find the values of all 6 trig functions:

a. $\sin \theta = 4/5$ and $90^\circ \leq \theta \leq 180^\circ$

Quadrant: _____

$\sin \theta =$ _____

$\cos \theta =$ _____

$\tan \theta =$ _____

$\csc \theta =$ _____

$\sec \theta =$ _____

$\cot \theta =$ _____

b. $\tan \theta = -5/17$ and $3\pi/2 \leq \theta \leq 2\pi$

Quadrant: _____

$\sin \theta =$ _____

$\cos \theta =$ _____

$\tan \theta =$ _____

$\csc \theta =$ _____

$\sec \theta =$ _____

$\cot \theta =$ _____

7. Use your PINK sheet to determine the value of the following angles.

Find the reference angle (α) and determine the Quadrant first!

a. $\sin 135^\circ =$ _____

b. $\cos (-210^\circ) =$ _____

c. $\tan 5\pi/6 =$ _____

d. $\sin \pi/2 =$ _____

e. $\cos 315^\circ =$ _____

f. $\cos (-45^\circ) =$ _____

g. $\cos \pi =$ _____

h. $\sin (-270^\circ) =$ _____

i. $\tan 11\pi/6 =$ _____

j. $\cos (-150^\circ) =$ _____

k. $\tan (-330^\circ) =$ _____

l. $\tan 3\pi/2 =$ _____

m. $\sin 150^\circ =$ _____

n. $\cos (-2\pi/3) =$ _____

o. $\sin (-135^\circ) =$ _____

p. $\tan 180^\circ =$ _____

8. Solve the trig equations below for $0 \leq \theta \leq 360^\circ$.

a. $\sin \theta = \frac{\sqrt{3}}{2}$

b. $\cos \theta = -1$

c. $2 \tan \theta = -2$

9. Solve the trig equations below for $0 \leq \theta \leq 2\pi$.

a. $\sin \theta = -\frac{\sqrt{2}}{2}$

b. $2 \cos \theta = -1$

c. $3 \tan \theta = -\sqrt{3}$

10. A point $(-8, -15)$ is on the terminal side of an angle in standard position. Determine exact values of the six trigonometric functions of the angle.

$\sin \theta =$ _____

$\csc \theta =$ _____

$\cos \theta =$ _____

$\sec \theta =$ _____

$\tan \theta =$ _____

$\cot \theta =$ _____