Trig information sheet $\rightarrow$ HELPFUL STUDY TOOL FOR FINAL EXAM! Quiz yourseli: complete as much as possible without looking at your notes!

Label each set of given coordinates and write the corresponding radian value.

This page is OPTIONAL work, although you will be expected to know the content for the final exam.


$$
\sin \theta=\frac{y}{r} \quad \cos \theta=-\quad \tan \theta=-
$$



Principal Values are used to find unique solutions:
$\operatorname{Sin} x$ and Tan $x$, refer only to Quadrant $\qquad$

$$
\csc \theta=\frac{r}{y} \quad \sec \theta=-\quad \cot \theta=-
$$ or $\qquad$ .

$\operatorname{Cos} x$, refer only to Quadrant $\qquad$ or $\qquad$ .

Name the function that best completes each identity statement:

Reciprocal identities:
1.

$$
=\frac{1}{\sec \theta}
$$

2. 

$$
=\frac{1}{\sin \theta}
$$

3. 

$$
=\frac{1}{\cot \theta}
$$

4. 

$$
=\frac{1}{\csc \theta}
$$

5. $\qquad$

$$
=\frac{1}{\tan \theta}
$$

6. 

$$
=\frac{1}{\cos \theta}
$$

## Quotient Identities:

7. $\quad=\frac{\cos \theta}{\sin \theta}$
8. 

$$
=\frac{\sin \theta}{\cos \theta}
$$

Double Angle Identities:
9. $\sin (2 \theta)=$ $\qquad$
10. $\cos (2 \theta)=\cos ^{2} \theta-$ $\qquad$

Pythagorean identities:
11. $+\ldots=1$
12. $\tan ^{2} \theta+1=$ $\qquad$
13. $1+\cot ^{2} \theta=$ $\qquad$
14. Clearly show how to derive the Pythagorean identities in \#12 and \#13 from the identity given in \#11.

HINT: use division

