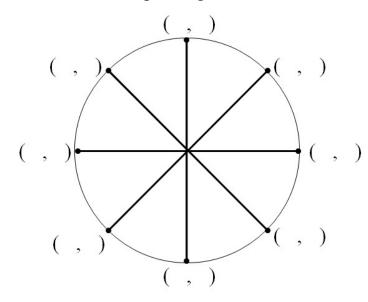
Trig information sheet > HELPFUL STUDY TOOL FOR FINAL EXAM!

Quiz yourself: complete as much as possible without looking at your notes!

Label each set of given coordinates <u>and</u> write the corresponding radian value.

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



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

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

Principal Values are used to find unique solutions:

Sinx and Tanx, refer only to Quadrant ___ or ___.

Cosx, refer only to Quadrant ____ or ____.

Name the function that best completes each identity statement:

Reciprocal identities:

1.
$$\underline{\hspace{1cm}} = \frac{1}{\sec \theta}$$

$$2. \quad \underline{\qquad} = \frac{1}{\sin \theta}$$

3.
$$\underline{\qquad} = \frac{1}{\cot \theta}$$

4.
$$\underline{\hspace{1cm}} = \frac{1}{\csc \theta}$$

5. ____ =
$$\frac{1}{\tan \theta}$$

6.
$$\underline{\hspace{1cm}} = \frac{1}{\cos \theta}$$

Quotient Identities:

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

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

Double Angle Identities:

9.
$$\sin(2\theta) =$$

10.
$$\cos(2\theta) = \cos^2\theta -$$

Pythagorean identities:

12.
$$\tan^2\theta + 1 =$$

13.
$$1 + \cot^2\theta =$$

14. <u>Clearly</u> show how to derive the Pythagorean identities in #12 and #13 from the identity given in #11.

HINT: use division