

Name: \_\_\_\_\_

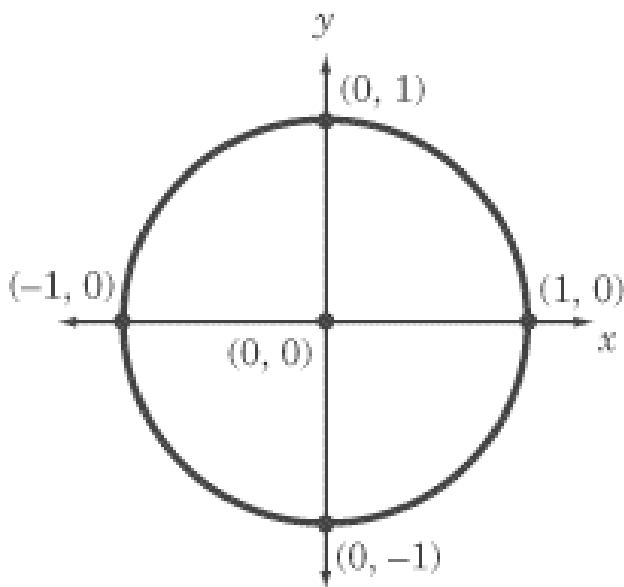
M\$6 Trigonometric Identities

1. Complete the tables below:

<b>Quotient Identities</b>
$\tan x = \frac{\quad}{\quad}$
$\cot x = \frac{\quad}{\quad}$

<b>Reciprocal Identities</b>		
$\sin x = \frac{1}{\quad}$	$\cos x = \frac{1}{\quad}$	$\tan x = \frac{1}{\quad}$
$\csc x = \frac{1}{\quad}$	$\sec x = \frac{1}{\quad}$	$\cot x = \frac{1}{\quad}$

2. The Pythagorean Identities



<b>Pythagorean Identities</b>
1.
2.
3.

**Hints and Strategies for Proving Trigonometric Identities:**

- 1) Try to get one side to look identical to the other side.
- 2) Work on the more complicated side first.
- 3) Try to express everything in terms of  $\sin x$  and  $\cos x$
- 4) Do not cross-multiply or multiply both sides by the same quantity. (It is not an equation.)