

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name

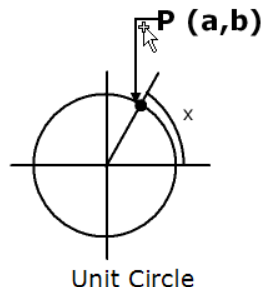
You must show your work in order to receive credit.

**Some unit circles are provided. Use them if they help you analyze the question**

1. Refer to the diagram of the unit circle shown at the right.

Express each of the following in terms of a and b.

$\sin(x) =$                        $\cos(x) =$                        $\tan(x) =$



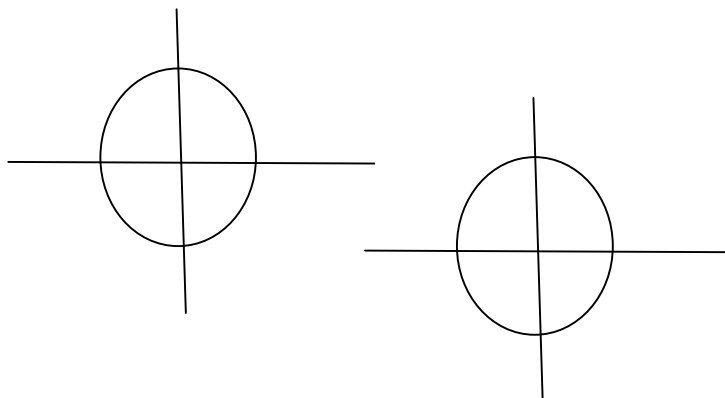
2. Express  $\tan(x)$ ,  $\cot(x)$ ,  $\sec(x)$ , and  $\csc(x)$  in terms of  $\sin(x)$  and/or  $\cos(x)$

$\tan(x) =$

$\cot(x) =$

$\sec(x) =$

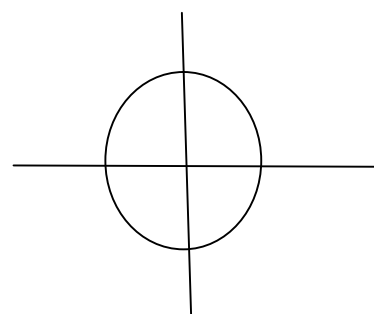
$\csc(x) =$



3. Complete each of the following Pythagorean identities.

$\sin^2(x) =$

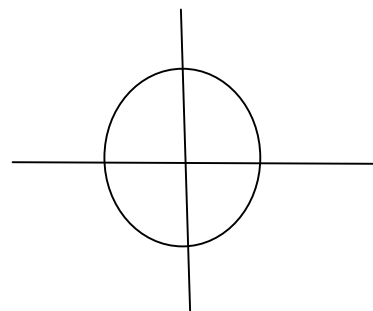
$\sec^2(x) =$



4. Complete the following identities for negatives.

$\sin(-x) =$

$\cos(-x) =$



5. What is the domain of  $\sin$ ?