

Name \_\_\_\_\_ Score \_\_\_\_\_/10

**Please Print Clearly**

**Calculators are permitted. HOWEVER, work must be presented to show me what you did to answer the question.**

1. Refer to Figure 1. If  $c = 9$  and  $a = 7$ , what is the value of  $b$ ?

2. Refer to Figure 1. What is the relation between  $\sin(\alpha)$  and  $\cos(\beta)$

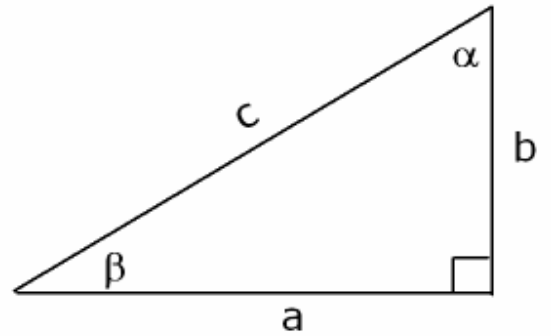


Figure 1

3. Refer to Figure 1.

Suppose  $\alpha = 54^\circ$  and  $c = 4.3$ . Find  $\beta$ ,  $a$ , and  $b$ .

4. Express each of the following in terms of  $\sin(x)$  and/or  $\cos(x)$

$\tan(x) =$

$\cot(x) =$

$\csc(x) =$

$\sec(x) =$

5. Supply the coordinates of the point P on the UNIT CIRCLE diagram

