

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

## Quotient and Reciprocal Identities

Sheet 1

1) If  $\csc x = -\frac{9}{7}$ , find  $\sin x$ .

2) If  $\sin x = \frac{12}{13}$  and  $\cos x = \frac{5}{13}$ ,  
find  $\tan x$ .

3) If  $\sec x = \frac{\sqrt{7}}{2}$ , find  $\cos x$ .

4) If  $\cot x = \frac{63}{16}$  and  $\sin x = \frac{16}{65}$ ,  
find  $\cos x$ .

5) If  $\sec x = \frac{61}{11}$  and  $\tan x = \frac{60}{11}$ , determine the values of other trigonometric functions.

**Quotient and Reciprocal Identities**

1) If  $\csc x = -\frac{9}{7}$ , find  $\sin x$ .

$$-\frac{7}{9}$$

2) If  $\sin x = \frac{12}{13}$  and  $\cos x = \frac{5}{13}$ ,  
find  $\tan x$ .

$$\frac{12}{5}$$

3) If  $\sec x = \frac{\sqrt{7}}{2}$ , find  $\cos x$ .

$$\frac{2\sqrt{7}}{7}$$

4) If  $\cot x = \frac{63}{16}$  and  $\sin x = \frac{16}{65}$ ,  
find  $\cos x$ .

$$\frac{63}{65}$$

5) If  $\sec x = \frac{61}{11}$  and  $\tan x = \frac{60}{11}$ , determine the values of other trigonometric functions.

$$\cos x = \frac{11}{61}$$

$$\cot x = \frac{11}{60}$$

$$\sin x = \frac{60}{61}$$

$$\csc x = \frac{61}{60}$$