

Name : _____

Sheet 1

Quotient Identities

1) If $\sin x = \frac{3}{5}$ and $\cos x = \frac{4}{5}$,
find $\tan x$.

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

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

4) If $\cos x = \frac{60}{61}$ and $\cot x = \frac{60}{11}$,
find $\sin x$.

5) If $\sin x = \frac{39}{89}$ and $\cot x = -\frac{80}{39}$,
find $\cos x$.

6) If $\cos x = -\frac{\sqrt{13}}{7}$ and $\sin x = -\frac{6}{7}$,
find $\cot x$.

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Answer key

Sheet 1

Quotient Identities

1) If $\sin x = \frac{3}{5}$ and $\cos x = \frac{4}{5}$,
find $\tan x$.

$$\frac{3}{4}$$

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

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

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

$$-\frac{12}{13}$$

4) If $\cos x = \frac{60}{61}$ and $\cot x = \frac{60}{11}$,
find $\sin x$.

$$\frac{11}{61}$$

5) If $\sin x = \frac{39}{89}$ and $\cot x = -\frac{80}{39}$,
find $\cos x$.

$$-\frac{80}{89}$$

6) If $\cos x = -\frac{\sqrt{13}}{7}$ and $\sin x = -\frac{6}{7}$,
find $\cot x$.

$$\frac{\sqrt{13}}{6}$$