

In a unit circle,

Quotient identities

Reciprocal identities

Negative angle identities

Pythagorean identities

Identities involving  $\pi - t$

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Find  $\cot \theta$  and  $\csc \theta$

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if  $\cos \theta = \frac{5}{9}$  and  $\csc \theta < 0$ .

Periodicity identities

Find  $\tan \theta$  and  $\cot \theta$

if  $\sec \theta = \frac{7}{5}$  and  $\sin \theta < 0$ .

Find  $\cos \theta$  and  $\csc \theta$

if  $\sec \theta = \frac{4}{3}$  and  $\cot \theta > 0$ .

Find  $\sec \theta$  and  $\cos \theta$   
if  $\cot \theta = -3$  and  $\sec \theta > 0$ .

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Find  $\sin \theta$  and  $\tan \theta$   
if  $\csc \theta = -\frac{5}{2}$  and  $\sec \theta < 0$ .

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