

Name : _____

Pythagorean Identities

L1S3

1) If $\tan x = \frac{12}{35}$ and x lies in quadrant I, find $\sec x$.

2) If $\sin x = \frac{1}{3}$

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3) If $\cos x = \frac{2}{2}$

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4) If $\cot x = \frac{39}{80}$ and $180^\circ \leq x \leq 270^\circ$, find $\sin x$.

Pythagorean Identities

- 1) If $\tan x = \frac{12}{35}$ and x lies in quadrant I, find $\sec x$.

$$\sec x = \frac{37}{35}$$

- 2) If $\sin x = \frac{2}{3}$

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- 3) If $\cos x = \frac{2}{2}$

- 4) If $\cot x = \frac{39}{80}$ and $180^\circ \leq x \leq 270^\circ$, find $\sin x$.

$$\sin x = -\frac{80}{89}$$