

PreCalculus Quiz

Your Name:

(1-4) Evaluate without using a calculator. Use the Pythagorean identities. Show all work.

1. Find $\sin \theta$ and $\cos \theta$ if $\tan \theta = 3/4$ and $\sin \theta > 0$.

2. Find $\sec \theta$ and $\csc \theta$ if $\tan \theta = 3$ and $\cos \theta > 0$.

(5-9) Simplify the expression.

5. $\tan x \cos x$

6. $\cot \theta \sin \theta$

(10-12) Verify (prove) the identity.

10. $\sin x \csc(-x)$

11. $\sin^2(-x) + \cos^2(-x)$

12.

over →

(13-20) Solve. (Do not use your calculator!)

13. $2\cos x \sin x - \cos x = 0$

14. $\sqrt{2} \tan x \cos x - \tan x = 0$

15.

$$\tan x \sin^2 x = \tan x$$

