Name_____

Unit 10 Assignment #5

Solve the following if $0 \leq \vartheta \leq 90$

Sometimes it helps to draw a right triangle and sometimes it might help to use your Pythagorean Identities.

1) $\cot\theta = 2$ Find the $\tan\theta$

2) $\sin\vartheta = 0$ Find the $\csc\vartheta$

3) $\sec\vartheta = \frac{9}{2}$ Find the $\cos\theta$

4) $\tan\vartheta = 1$ Find the $\cot\vartheta$

5) $\sin\vartheta = \frac{1}{2}$ Find the $\cos\vartheta$

6) $\tan\vartheta = \frac{\sqrt{3}}{2}$ Find the $\sec\vartheta$

7) $\cot\vartheta = \frac{8}{10}$ Find the $\csc\vartheta$

8) $\tan\vartheta = \frac{\sqrt{11}}{2}$ Find the $\sec\vartheta$

9) $sin\vartheta = \frac{40}{41}$ Find the tanϑ

10) Cos$\vartheta = \frac{2}{3}$ Find the Cscϑ

11) Cos$\vartheta = \frac{3}{5}$ Find the tanϑ

12) Tan$\vartheta = \frac{7}{2}$ Find the secϑ

13) $Cos\vartheta = \frac{3}{10}$ Find the Cotϑ

14) Tan$\vartheta = \frac{1}{2}$ Find the Sinϑ

Review. Draw the following angles and include the reference angle. Find the exact value of the 6 trig functions.

1) 315°

2) 225°

3) 120°

4) 150°

5) 210°

6) 270°