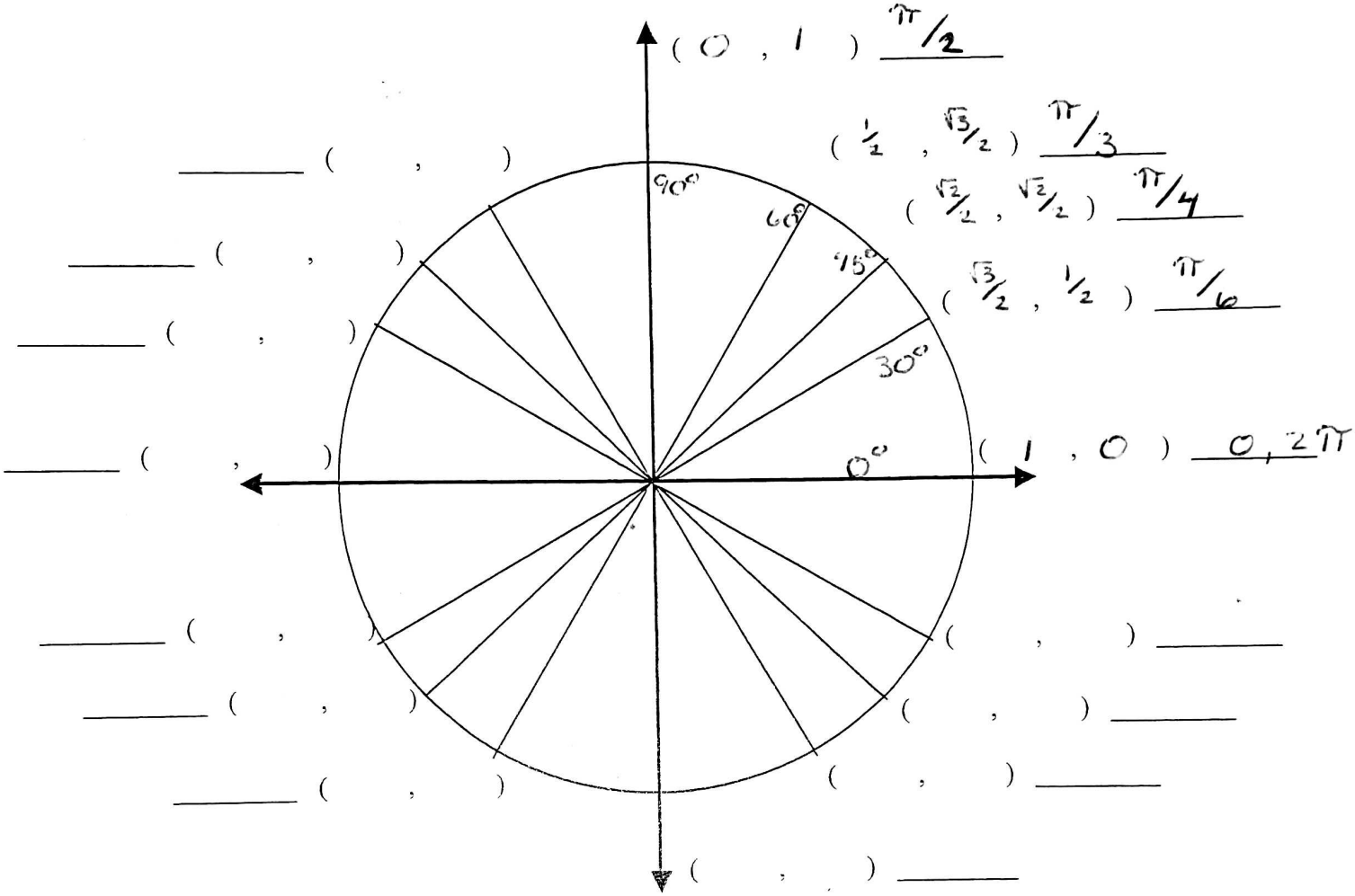
Secondary Math III
HW 10-3 Unit Circle

Name Selected Answers
Date_____ Per_____



Evaluate without a calculator:

1. $\sin\left(\frac{\pi}{6}\right) = \frac{1}{3}$ 2. $\sec\left(\frac{\pi}{4}\right)$ 3. $\tan\left(\frac{\pi}{3}\right) = \sqrt{3}$ 4. $\csc\left(\frac{4\pi}{3}\right)$ 5. $\cos\left(\frac{7\pi}{4}\right) = \frac{\sqrt{2}}{2}$

Find the angle that satisfies the following equations:

6. $\cos\theta = \frac{1}{2};\ 0 \le \theta \le \pi$ 7. $\tan\theta = \sqrt{3};\ -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$ 8. $\sin\theta = -\frac{\sqrt{2}}{2};\ -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$

$\theta = \pi/3$

Evaluate without a calculator:

9. $\sin\frac{\pi}{3}$

10. $\cos\frac{3\pi}{4}$

$= -\sqrt{2}/2$

11. $\csc\frac{-15\pi}{4}$

12. $\tan\left(\frac{\pi}{3}\right)$

$= \sqrt{3}$

13. $\sec\frac{5\pi}{6}$

Review:

1. If $\cos\theta = \frac{5}{7}$ find all other trig identities.

2. Mr. Myrup is hanging Christmas lights. He places his 12 foot ladder at a 23^0 angle with the ground. How far way is the ladder from the house?