

**Quiz 7**

1. Find all solutions to the equation for  $x$  in the range  $[0, 2\pi)$ . (7 pts.)

$$\cos(2x) = -1$$

2. Verify the identity. (6 pts.)

$$(\sec \theta + 1)(\sec \theta - 1) = \tan^2 \theta$$

3. Use the information provided to find the exact value of  $\theta$  for the other five trig functions.

$$\tan \theta = \frac{-1}{2} \quad \text{and} \quad \frac{\pi}{2} < \theta < \pi$$

(7 pts.)