

Math 120 Quiz #6
February 20, 2008

Name: _____

Show all work.

1. (3 pts.) Find the exact value of $\sin\left(\frac{7\pi}{12}\right)$.

2. (3 pts.) If x is in quadrant I and $\sin x = \frac{8}{17}$, find the exact value of $\sin(2x)$.

3. (2 pts.) If θ is in quadrant IV and $\cos \theta = \frac{5}{8}$, find the exact value of $\sin\left(\frac{\theta}{2}\right)$.

4. (2 pts.) Find the exact values of the following:

(a) $\tan^{-1}(-1)$

(b) $\cos^{-1}\left(\cos\left(\frac{7\pi}{6}\right)\right)$