Math 112 – section ____ ____ NAME: _____
Quiz 7version A, spring 2011 20
sections 8.7-8.8 Seat location: _____

Show all necessary steps in each problem. Full credit is based on work shown!

1. **Solve each equation on the interval** $0 \le \theta < 2\pi$ **.**

4pts

a. $\cos\theta = -\dfrac{\sqrt{3}}{2}$

8pts

c. $2\sin^2\theta - \sin\theta - 1 = 0$

8pts

b. Use a calculator to solve: $\tan\theta = 3$
(Round answers to 3 decimal places.)

Show a sketch of the graph of $y = \tan\theta$, with the solutions to $\tan\theta = 3$ marked on the graph. Remember to show solutions in the interval $0 \le \theta < 2\pi$ **.**