QUIZ 6 - MATH 131 YOUR NAME:

Thursday, March 10 George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

- (a) Someone tells you that θ = cos⁻¹(x), for some quantity −1 ≤ x ≤ 1. What do you know, then, about the angle θ?
 (Hint: You know two things!)
 - (b) Find $\cos^{-1}(-\frac{1}{2})$.
 - (c) Find $\cos^{-1}(\cos\frac{5\pi}{4})$.
- 2. Find $\sin(2\sin^{-1}\frac{4}{5})$.

3. Solve the equation $2\sin x \cos x = \sqrt{3}\sin x$ in the interval $0 \le x < 2\pi$.