Name: _____

Quiz 4

Math 112

You have 20 minutes to complete both sides of this quiz and turn it in. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one — and you may not consult other people or the internet. **Show all your work.**

1. (4 points) Is the function $y = x^{1/3}$ one-to-one? Why or why not?

2. (8 points) Find the exact value of $\tan\left(\dfrac{5\pi}{3}\right)$. As on the exam, you must fully explain how you calculate all trig functions to receive credit.

3. (8 points) Find $\arcsin\left(\dfrac{-\sqrt{3}}{2}\right)$ in degrees, explaining your reasoning.