

Math 125**Quiz 4 (20 minutes)**

Name _____ Student number _____ Quiz section: _____

This is a closed book and notes quiz, and no calculators can be used. There are three problems in this quiz (the other one is on the back of this page), total of 20 points. Write legibly and show your work fully.

1. (6 points) Evaluate $\int_0^{\pi/3} \cos^5 x \, dx$.

2. (7 points) $\int x^3 \sqrt{9 + 4x^2} \, dx$.

3 (7 points) Find $\int \frac{1}{(x^2 + 4x + 3)^{3/2}} dx$.