Dawson College: Calculus II (SCIENCE): 201-NYB-05-S1: Fall 201
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Name:	
<b>Student ID:</b>	

## Quiz 5

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

**Question 1.** (5 marks) §5.3 #19 Evaluate the integral.

$$\int_{1/2}^{\sqrt{3}/2} \frac{6}{\sqrt{1-t^2}} \, dx$$

**Question 2.** (5 marks) §5.5 #62 If f is continuous and  $\int_0^9 f(x) dx = 4$ , find  $\int_0^3 x f(x^2) dx$ .

**Question 3.** (5 marks) §6.1 #20 Evaluate the integral.

$$\int_{1}^{\sqrt{3}} \arctan\left(\frac{1}{x}\right) dx$$