Dawson	College:	Calculus	Π·	201-20	)3-DW-	S03.	Fall	2009
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Name:	
<b>Student ID:</b>	

## Bonus Quiz 2

This quiz is graded out of 10 marks. No books, 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) Evaluate the integral if it converges.

$$\int_{1}^{\infty} \frac{1}{(2x-1)^{3/2}} \, dx$$

**Question 2.** (5 marks) Verify that

$$y = \frac{C}{x}$$

is a general solution of

$$y' + \left(\frac{1}{x}\right)y = 0$$

and find the particular solution that satisfies y(1) = 1.