Dawson	College:	Calculus	ΤŢ٠	201	NYB-	-05-	-S3·	Fall	2010
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Quiz 9

This quiz is graded out of 15 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. §7.1 #10 (5 marks) Sketch the region enclosed by the given curves. Then find the area of the region.

$$y = x^2$$
, $y = 4x - x^2$

Question 2. §6.6 #20 (5 marks) Determine whether the integral is convergent or divergent. Evaluate if convergent.

$$\int_{1}^{\infty} \frac{\ln x}{x^3} dx$$

Question 3. $\S7.2 \#7 (5 \text{ marks})$ Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified line.

$$y^2 = x$$
, $x = 2y$; about the y-axis