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 #5 (5 marks) Sketch the region enclosed by the given curves. Then find the area of the region.

$$y = x + 1$$
, $y = 9 - x^2$, $x = -1$, $x = 2$

Question 2. §6.6 #32 (5 marks) Determine whether the integral is convergent or divergent. Evaluate if convergent.

$$\int_0^1 \frac{\ln x}{\sqrt{x}} dx$$

Question 3. §7.2 #9 (5 marks) Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified line.

$$y = x$$
, $y = \sqrt{x}$; about $y = 1$