Dawson	College:	Calculus 1	I: 201	-NYA-(	)5-S4:	Winter 2012
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Name:	
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## Quiz 10

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. §4.2 #45 (5 marks) Find the inflection point(s), if any of

$$f(x) = 6x^3 - 18x^2 + 12x - 15$$

Question 2. §4.2 #61 (5 marks) Find the relative extrema, if any. Use the second derivative test, if applicable.

$$g(t) = t + \frac{9}{t}$$

**Question 3.** (5 marks) Find the equation of the tangent to the function  $f(x) = \tan 2x$  at  $x = \frac{\pi}{8}$