Dawson	College:	Calculus II	(SCIENCE)): 201-NYB-05-S10:	Winter 2016
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Name:	

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. (5 marks) §8.1 #32 Determine whether the sequence converges or diverges. If it converges, find the limit.

$$a_n = \frac{(-3)^n}{n!}$$

Question 2. (5 marks) §8.2 #25 Determine whether the series is convergent or divergent by expressing s_n as a telescoping sum. If it is convergent, find its sum.

$$\sum_{n=1}^{\infty} \frac{2}{n^2 - 1}$$