Name:	
Math 152 Calculus II – Crawford	

Quiz 4

16 October 2015

Books, notes (in any form), and calculators are not allowed. Show all your work. Good Luck!

1. (5 pts) Determine whether the following <u>series</u> converges or diverges. <u>If it is convergent, find its sum.</u> Show all your work.

$$\sum_{n=1}^{\infty} \frac{4 \cdot 3^{n-1}}{2^{2n}}$$

2. (10 pts) Determine whether the following <u>series</u> converge or diverge. Show all your work and clearly state any test(s) used.

(a).
$$\sum_{n=1}^{\infty} \frac{3n^2 + \sqrt{n}}{n^2}$$

(b). $\sum_{n=2}^{\infty} \frac{1}{n(\ln)^2}$