Math 141
Quiz 5
March 23, 2016

NAME_____

calculators? You don't need no stinkin' calculators

For problems, #1 and #2,

- Test the series for **convergence or divergence**.
- **Name** the test utilized.
- **Support** your conclusion.
- If convergent, find the **sum**, whenever possible.

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

Test:

Support / work:

Converge/diverge:

Sum, if possible.

2. $$\sum_{n=0}^{\infty} (-1)^n \frac{2^n}{3^{n-1}}$$

Test:

Support / work:

Converge/diverge:

Sum, if possible.