Calculus II - Monday, August 25, 2014 - Mr. Clontz - Quiz 03
Fill in the circle for the correct answer for each of the following problems.

Name: _____ 9am / 10am

1. (10 points) Determine whether $\sum_{n=0}^{\infty} \frac{4n}{\sqrt{2n^3-1}}$ converges or diverges.
   - ◯ The series converges.
   - ◯ The series diverges.

2. (10 points) Determine whether $\sum_{n=0}^{\infty} \frac{(-1)^{n-1}}{n^{3/2}}$ converges or diverges.
   - ◯ The series converges.
   - ◯ The series diverges.

3. (5 points) Determine whether or not the series $\sum_{n=1}^{\infty} \frac{2^{n-1}}{3^n}$ converges or diverges. If it converges, give its sum.
   - ◯ The series converges to $\frac{3}{2}$.
   - ◯ The series converges to $\frac{2}{3}$.
   - ◯ The series converges to 1.
   - ◯ The series diverges.
   - ◯ None of these.