Quiz 5

Math 102, Term 172

NAME:
ID:

Find if the following series are convergent, absolutely convergent, conditionally convergent, or divergent:

1. $\sum_1^\infty (1 - \frac{1}{n})^{n^2}$

2. $\sum_1^\infty a_n$, where $a_1 = \frac{1}{2}$ and $a_{n+1} = \sqrt{a_n}$.

3. $\sum_1^\infty a_n$, where $a_1 = 2$ and $a_{n+1} = \frac{\sqrt[n]{2}}{n} a_n$.

4. $\sum_1^\infty sech\ n$

5. $\sum_1^\infty (-1)^n [\ \sqrt{n + \sqrt{n}} - \sqrt{n}\ ]$