

Quiz 10

MATH 222-004

Spring 2016

Name: _____

For full credit please explain all of your answers. **No calculators** are allowed.

Problem 1. Determine whether the following series converges or diverges:

$$\sum_{n=1}^{\infty} \frac{3 + 2^{-n}}{\sqrt{n}}$$

If you use a convergence test clearly state which one you use and show all work.

Problem 2. Determine whether the following series converges or diverges:

$$\sum_{k=1}^{\infty} \frac{5^k}{3^k + 4^k}$$

If you use a convergence test clearly state which one you use and show all work.