

Math 182

Quiz 17

Name: \_\_\_\_\_

November 19, 2004

Show all work for credit.

1. Determine if the series converge or diverge.

(a) 
$$\sum_{n=0}^{\infty} \frac{n}{\sqrt{n^2 + 1}}$$

(b) 
$$\sum_{n=1}^{\infty} \frac{\cos n\pi}{n^2}$$