

# Math152 - Calculus II - Winter 2005

## Quiz #6, February 21, 2005

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get the full credit.

Find the radius of convergence and the interval of convergence:

(a) 
$$\sum_{k=1}^{\infty} \frac{x^k}{k^2}$$

(b) 
$$\sum_{k=2}^{\infty} (-1)^k \frac{x^k}{k+2}$$