HW #15 from 11.3

Wednesday, April 16, 2014 1:23 PM

11. n 2

 $= \sum_{n=1}^{\infty} \left(\frac{\sqrt{n}}{n^2} + \frac{4}{n^2} \right)$

 $\frac{\infty}{\Sigma} \frac{\sqrt{n}}{n^2} + \frac{1}{\Sigma}$ Z 1/3/2 + 4 2 1 These are both convergent p-series $(p_i = \frac{3}{7} > 1)$ and $p_i = \frac{3}{7} > 1$. So, the original converges.

Section 11.4 The Comparison Tests Page 1