**Chapter 4 Homework**

1. Use one or more appropriate convergence tests to show if the series converges absolutely or conditionally or diverges:
3. For which values of *p* is convergent?
4. Give an example of series and , each of which converges, but such that diverges. *(Hint: try conditionally convergent series, not absolute convergent ones)*
5. Give an example of a divergent series whose partial sums are bounded.