Math 2260 Quiz 17

Name _____

Points will be deducted for untidy or disorganized answers

- 1. Determine which of the follow series converge absolutely, which converge conditionally, and which diverge. Give reasons for your answer.
 - (a) (1 point)

$$\sum_{n=1}^{\infty} (-1)^{n+1} \frac{1}{n\sqrt{n}}$$

(b) (1 point)

$$\sum_{n=1}^{\infty} (-1)^n \frac{n}{n^2 + 1}$$

(c) (1 point)

$$\sum_{n=1}^{\infty} \frac{(-3)^n n}{(n+1)^5}$$

(d) (2 points)

$$\sum_{n=1}^{\infty} (-1)^{n+1} \frac{n!}{(2n)!}$$