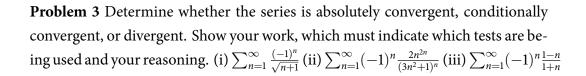
Name:

**Problem 1** Compute  $\sum_{n=1}^{\infty} \frac{(-4)^{n-2}}{5^n}$ .

- (a)  $-\frac{1}{36}$
- (b) The series diverges.
- (c) 5
- (d)  $\frac{4}{9}$
- (e)  $-\frac{16}{9}$

**Problem 2** Which of the following statements about the series  $\sum_{n=2}^{\infty} \frac{n}{n^3-5}$  is/are true?

- (I) The series converges by the Limit Comparison Test with  $\sum_{n=2}^{\infty} \frac{1}{n^2}$ .
- (II) The series converges by the Ratio Test.
- (III) The series converges by the Comparison Test with  $\sum_{n=2}^{\infty} \frac{1}{n^2}$ .
- (a) I and II
- (b) II and III
- (c) I, II, and III
- (d) I and III
- (e) I



## Feedback:

1. Any comments (on lectures, homework, quizzes, course, me, etc.)?