

King Fahd University of Petroleum and Minerals  
Department of Math & Stat  
**Math 102.10 (072)**  
**Quiz 5**

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Name: \_\_\_\_\_

ID #: \_\_\_\_\_

(Show Your Work)

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1. Determine whether the series  $\sum_{n=2}^{\infty} \frac{(-1)^n}{\ln n}$  is absolutely convergent, conditionally convergent, or divergent. (10 points)

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1. Determine whether the series  $\sum_{n=1}^{\infty} \frac{\cos\left(\frac{n\pi}{3}\right)}{n!}$  is absolutely convergent, conditionally convergent, or divergent. (10 points)