

King Fahd University of Petroleum and Minerals  
Department of Mathematical Sciences  
**Math 102.14 Quiz 6 Second Semester (052)**

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

Serial # \_\_\_\_\_ Section #: \_\_\_\_\_

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1. Determine whether the series converges or diverges. [Show your work]

(a) 
$$\sum_{n=1}^{\infty} \frac{4n^7 + 2}{n^8 + 3n^5}.$$

(b) 
$$\sum_{n=1}^{\infty} \frac{5^n (n!)^3}{(3n)!}.$$