

## Series Groupwork

MATH 131: Calculus II, Sections 2 and 3  
December 9, 2015

Determine whether the following converge absolutely, conditionally or not at all:

(a) 
$$\sum_{n=1}^{\infty} \frac{(-1)^n (2n^4 + 7)}{6n^9 - 2n}$$

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

(c) 
$$\sum_{n=1}^{\infty} \frac{(-1)^n (n+1)!}{2^n n}$$
 (Hint: Use the Ratio Test Extension on this one!)