

MATH 112-04 QUIZ 7

SURNAME / NAME:

ID:

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Example 1. Which of the series converge absolutely, converge conditionally, and diverge? State clearly conditions and name of test you are using.

$$(a) \sum_{n=1}^{\infty} \frac{(-1)^n}{\sqrt{n}} \quad (b) \sum_{n=1}^{\infty} \frac{\arctan(\sin n)}{n^2} \quad (c) \sum_{n=0}^{\infty} \cos\left(\frac{\pi n}{2}\right)$$