

Calculus 1B Quiz 3

Name:

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Set:

$$a_n = \frac{\arctan(n)}{1 + n^2}$$

(1) Show that $\sum_{n=1}^{\infty} a_n$ converges.

(2) Give an upper bound for $\sum_{n=1}^{\infty} a_n$.

(Fact: $\arctan(1) = \pi/4$).