

Present neatly ~~on separate paper.~~ **Justify** for full credit. No
Calculators.

Name _____ Score _____ A (6 minutes) **x1**

- 1) Determine whether the sequence is increasing, decreasing, or not monotonic. Is the sequence bounded?

$$a_n = ne^{-n}$$

- 2) True or False: "If a sequence converges absolutely, then it converges."
Explain.

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Calculators.

Name _____ Score _____ F (6 minutes) **x1**

1) Determine whether the sequence is increasing, decreasing, or not monotonic. Is the sequence bounded?

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

2) True or False? "If a sequence is bounded, then it converges." Explain.