Quiz 8A

Name:

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Closed book/notes. No calculators allowed. Show all your work.

1. Do the following series converge or diverge? Justify you answer. If the series converges, find what number it converges to.

(a)
$$\sum_{n=1}^{\infty} (e^{-n} - e^{-n+1})$$

(b)
$$\sum_{n=1}^{\infty} n$$

$$(c) \sum_{n=0}^{\infty} \frac{3}{2^{n+1}}$$