

### Quiz 15

Name: \_\_\_\_\_

1. Explain the meaning behind an integral from 0 to  $\infty$  of a rate being convergent, both the mathematical meaning and the real world meaning.

Mathematically, the integral being convergent means that it integrates to a finite number, like 7 or 3. Realistically speaking, it means that whatever quantity we are modeling will have a “growth cap.”