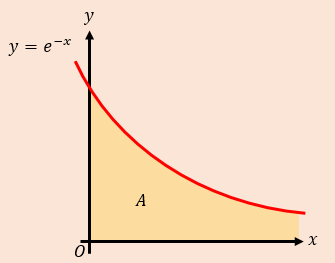
**3A Improper Integrals**

1. Calculate the area indicated in the diagram



1. Evaluate the integral below, or show that it is not convergent.
2. Find
3. Hence, show that converges, and find its value

A final thought on positive and negative areas and the difference between ‘find the integral’, and ‘find the area’

