Exercise 301

The amount A of a \$100,000 investment paying continuously and compounded for t years is given by $A(t) = 100,000 \cdot e^{0.055t}$. Find the amount A accumulated in 5 years.

Solution

Plug in t = 5 and use a calculator.

 $A(5) = 100,000 \cdot e^{0.055(5)} \approx 131,653.07$

The amount accumulated in 5 years is about \$131,653.07.