# MA 16010 Quiz 11 

Lesson 28-29
13 April 2022

Problem 1. Given $y^{\prime}=3 e^{x}+x$, and $y(0)=4$, find $y(2)$.
Problem 2. Recall the equation for a left Riemann Sum.

$$
L_{n}=\sum_{i=0}^{n-1} f\left(x_{i}\right) \cdot \Delta x
$$

where $x_{i}=a+i \cdot \Delta x$ and $\Delta x=\frac{b-a}{n}$.
Write down the equation for the Left Riemann Sum, $L_{n}$, with 200 rectangles used to estimate the area under the curve

$$
f(x)=3 x^{2}+2
$$

on the interval $[1,11]$.

