



AFE BABALOLA UNIVERSITY, ADO-EKITI, EKITI STATE, NIGERIA
COLLEGE OF ENGINEERING

BACHELOR OF ENGINEERING ASSIGNMENT III

ENG 281: Engineering Mathematics I

Session: 2019/2020

Semester: First

Unit: 3

Duration: 7 days

Instruction: Answer all the questions.

Question 1 [10 Marks]

Find the area bounded by the curves $y = 3e^{2x}$ and $y = 3e^{-x}$ and the ordinates at $x = 1$ and $x = 2$.

Question 2 [10 Marks]

The parametric equations of a curve are $y = 2 \sin \frac{\pi}{10} t$ and $x = 2 + 2t - 2 \cos \frac{\pi}{10} t$. Find the area under the curve between $t = 0$ and $t = 10$.