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| NAME | DAVIES EDWIN TAMUNOBOMA |
| MATRIC | 19/ENG09/021 |
| DEPARTMENT | AEROSPACE ENGINEERING |
| COURSE CODE | ENG 282 |
| COURSE TITLE | ENGINEERING MATHEMATICS 2 |
| TOPIC | L.M.S. ASSIGNMENT 1 SOLUTION |
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1. A dynamic equation is a mathematical representation of a time-dependent function or system, consisting of one ore more independent variables, as well as dependent variables.
2. y = Atet …… (1)

A = y/tet …….(2)

dy/dt = Aet + Atet …… (3)

Substituting (2) into (3):

dy/dt = [y• (tet )-1•(et)] + [y• (tet )-1•(tet)] ….. (4)

dy/dt = y (t)-1 + y ….. (5)

dy/dt = y(t-1 + 1)