Assignment-2
Differential Equations (MTH401)
Lecture Covered 13-22
Maximum Marks 20
Due Date: Wednesday, July 08, 2015

Question-01

Solve the differential equation: $\frac{d^4 y}{dx^4} + ay = 0$, when:

i) $a > 0$

ii) $a < 0$.

Question-02

Solve the differential equation: $x^2 \frac{d^2 y}{dx^2} - 3x\frac{dy}{dx} + 5y = x^2 \sin(\ln x)$