

Lab -2 Experiment -1
(Abhinav Jain, 13MA20004)

$$y'' - 2xy' - 2y = -4x$$

OUTPUT

x = 0.000000, y = 0.980329
x = 0.050000, y = 1.031797
x = 0.100000, y = 1.088193
x = 0.150000, y = 1.149619
x = 0.200000, y = 1.216253
x = 0.250000, y = 1.288356
x = 0.300000, y = 1.366277
x = 0.350000, y = 1.450460
x = 0.400000, y = 1.541461
x = 0.450000, y = 1.639960
x = 0.500000, y = 1.746778
x = 0.550000, y = 1.862903
x = 0.600000, y = 1.989518
x = 0.650000, y = 2.128035
x = 0.700000, y = 2.280138
x = 0.750000, y = 2.447833
x = 0.800000, y = 2.633520
x = 0.850000, y = 2.840064
x = 0.900000, y = 3.070896
x = 0.950000, y = 3.330136
x = 1.000000, y = 3.622740

GRAPH/PLOT:

