Solve the following differential equations using wxmaxima and plot the particular solutions:

1. y ′′ + y (y ′ ) 3 = 0 ; y(0) = 0 ; y ′ (0) = 2
2. y ′′ + y ′ − 6y = 0 y(0) = 1 y ′ (0) = 0.
3. y’’ + y’ − 2y = 3 with y(0) = y’ (0) = 1
4. y’’ − 6y’ + 9y = 0 with y(0) = 2 and y’ (0) = 0
5. y’’ + 2y’ + 17y = 0 with y(0) = 0 and y’ (1) = 1