

MATH 4305 - Ordinary Differential Equations II
Homework 0.3 - Linear Second Order Equations
Due - Wednesday, September 2, 2015

Solve each of these linear second order differential equations.

1. $y'' - y' - 30y = 0$

2. $y'' + y = 0$

3. $y'' + 2y' + 3y = 0$

4. $y'' - 6y' + 9y = 0$

5. $y'' - 6y = 0$

6. $x^2y'' - 4xy' + 6y = 0$

7. $x^2y'' - 3xy' - 5y = 0$

8. $x^2y'' - 3xy' + 4y = 0$