

MATH 253 WORKSHEET WEEK 12

This does **not** count for marks.

1. Solve the equation $y'' + 6y' + 9y = 0$ with initial conditions $y(0) = 1$, $y'(0) = 2$.

2. Solve the equation $y'' - 6y' + 9y = 0$ with initial conditions $y(0) = 1$, $y'(0) = 2$.

3. Solve the equation $y'' + 5y' + 6y = 0$ with initial conditions $y(0) = 1$, $y'(0) = 2$.

4. Solve the equation $y'' + 8y' + 20y = 0$.

5. Solve the equation $y'' - 6y' + 18y = 0$.

6. Solve the equation $y'' + 9y' - 10y = 0$ with initial conditions $y(0) = 1$,
 $y'(0) = 2$.