

WRITTEN HOMEWORK 8

MATH046 SEC030

This homework will be due on Thursday June 4th.

Question 1 Find the general solution of

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

Question 2 Find the general solution of

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

Question 3 Find the general solution of

$$2x^2y'' + 11xy' + 4y = 0$$

Question 4 Find the general solution of

$$x^2y'' - 2y = 0$$

Question 5 Find the general solution of

$$x^2y'' - 6xy' = 0$$