**7A Part 2 First Order Differential Equations and Integrating Factors**

Notes:

Solve the general equation:

$$\frac{dy}{dx}+Py=Q$$

Where P and Q are functions of x.

1. Find the general solution of the equation:

$$\frac{dy}{dx}-4y=e^{x}$$

1. Find the general solution of the equation:

$$\cos(x)\frac{dy}{dx}+2y\sin(x)=cos^{4}x$$