**7D Finding Constants of Second Order Differential Equations**

1. Find y in terms of x, given that:

$$\frac{d^{2}y}{dx^{2}}-y=2e^{x}$$

And that when x = 0,

$$y=0  and  \frac{dy}{dx}=0$$

1. Given that the particular integral is of the form:

$$λsin2t$$

Find the solution of the differential equation:

$$\frac{d^{2}x}{dt^{2}}+x=3sin2t$$

When t = 0, x = 0 and dx/dt = 1