

HomeWork1

1)

$$2 \frac{d^2 y(t)}{dt^2} + 5d \frac{dy(t)}{dt} + 3y(t) = 4$$

$$y(0) = 8$$

$$\frac{dy(0)}{dt} = 10$$

Determine $y(t)$.

2)

$$6 \frac{d^2 y(t)}{dt^2} + 10d \frac{dy(t)}{dt} + 4y(t) = 2$$

$$y(0) = 3$$

$$\frac{dy(0)}{dt} = 5$$

Determine $y(t)$.