ODE'S

Y,
$$dy = f(t)$$
 $dx = -gt$
 $dx =$

$$\frac{dy}{dt} = f(t,y)$$

$$\frac{dy}{dt} = \frac{1}{2} \frac{dy}{dt}$$

$$\frac{dy}{d$$

At
$$t_n = t_0 + n\Delta t$$
 $y_n = y_0$
 $y_1 \approx y_0 + dy_0 \Delta t$
 $y_1 \approx y_0 + dy_0 \Delta t$
 $y_n = y_{n-1} + dy_{n-1} \Delta t$
 $y_n = y_0 + dy_0 \Delta t$
 $y_0 = y_0 + dy_0 \Delta t$
 $y_1 = y_0 + dy_0 \Delta t$

