

Glider modeled with equations

Yranslation (without cardboard)

Obsect in free fall, so

acceleration: a = -g

$$a = -g$$

Velocity:
$$a = \frac{\partial v}{\partial t} = 7 - 9 = \frac{\partial v}{\partial t}$$

Separation of Variables,
-9.8 dt = dv

Integrate,
$$\int -9.8 dt = \int dv$$

lesult,

- Since released from free fall, initial relacity (Vo) is equal to zero. Therefore C=0

Position:
$$V = \frac{ds}{dt} = 7 - 9.8t = \frac{ds}{dt}$$

