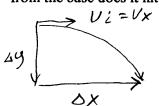
## 1° Honors Physics – Flat Projectile quiz 8 10-08-02

A rock is thrown horizontally off a 100 m high cliff at 25.0 m/s. (a) How long does it take to hit? (b) How far from the base does it hit?



$$t = _{-}$$
 5
 $\Delta x = _{-}M$ 
 $\Delta y = -100M$ 
 $Vx = 25 = _{-}8 = _{-}2$ 
 $\Delta y = -9.8 = _{-}2$ 
 $\Delta x = 0 = _{-}52$ 

Viy= 0 尝

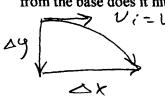
$$\Delta y = Vigt + \frac{1}{2}ayt^{2}$$

$$t = \sqrt{\frac{20y}{ay}}$$

$$= \sqrt{\frac{3(-100m)}{-9.8m}}$$

3° Honors Physics – Flat Projectile quiz 8 10-08-02

A rock is thrown horizontally off a 150 m high cliff at 35.0 m/s. (a) How long does it take to hit? (b) How far from the base does it hit?



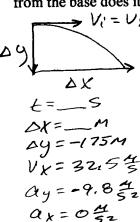
$$ay = -9.8 \frac{4}{52}$$
 $ax = 0\frac{4}{52}$ 

Vi=Ux Dy=Vigt+ fast DX=Uxt t = 209 = 2(-1504)

= 35 \( (5.53s) b) [1x=194m

8° Honors Physics – Flat Projectile quiz 8 10-09-02

A rock is thrown horizontally off a 175 m high cliff at 32.5 m/s. (a) How long does it take to hit? (b) How far from the base does it hit?



V19=0 4

DY=Vight + tagt2 t= \[ \frac{209}{a}  $=\sqrt{\frac{2(-175M)}{-9.85}}$ t= 5.985