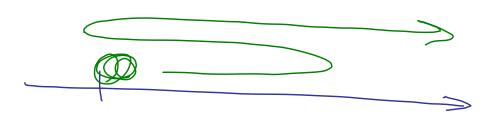
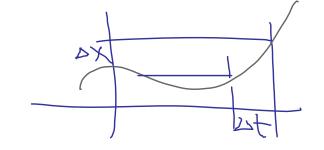
Phys 2110-5 8/31/12

Note Title 8/31/2012

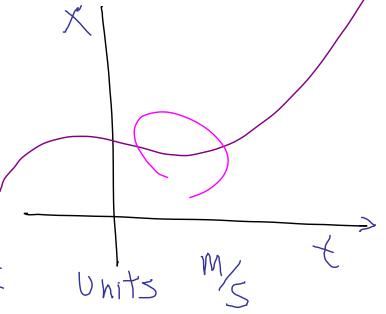
Chap 2 1-Dim motion.

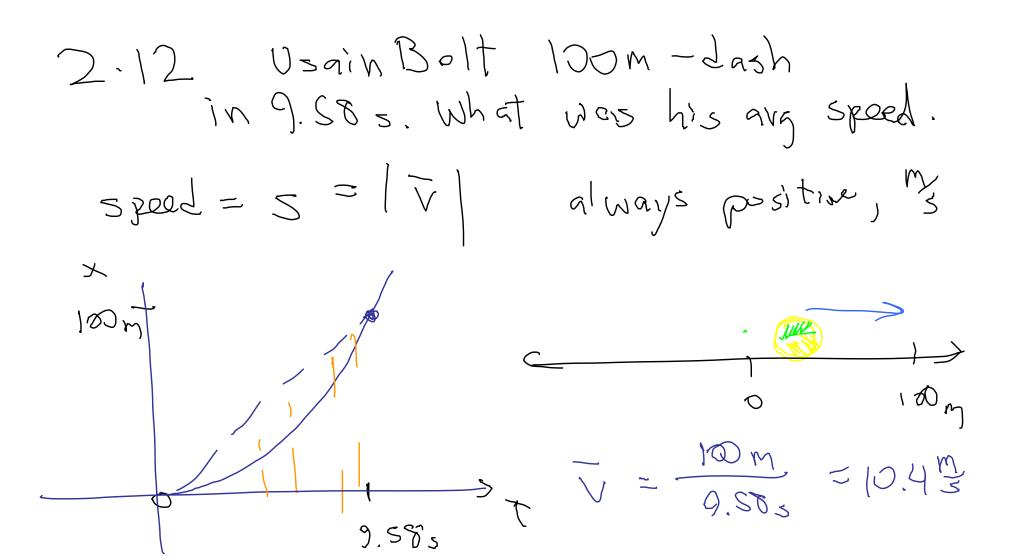


Average velocity

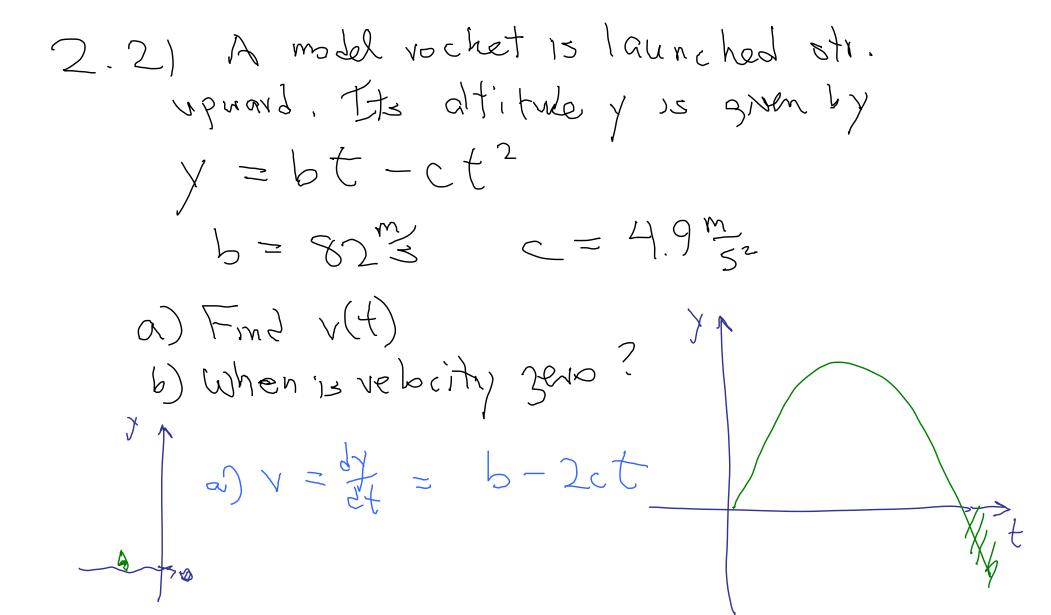


$$\sqrt{-\frac{\Delta X}{\Delta t}}$$



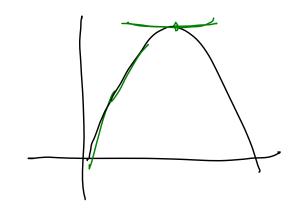


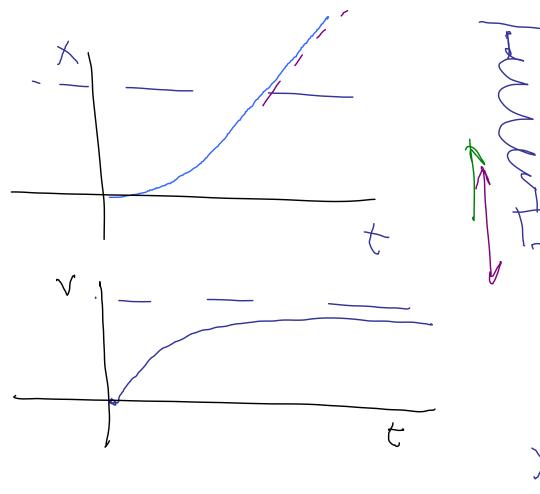
Instantanons velocity

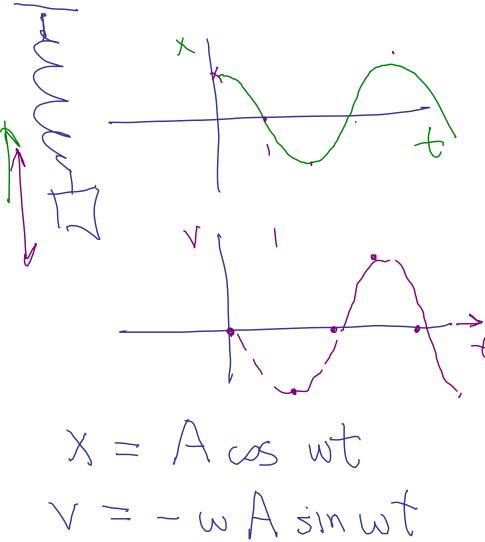


b)
$$y = b - 2ct$$

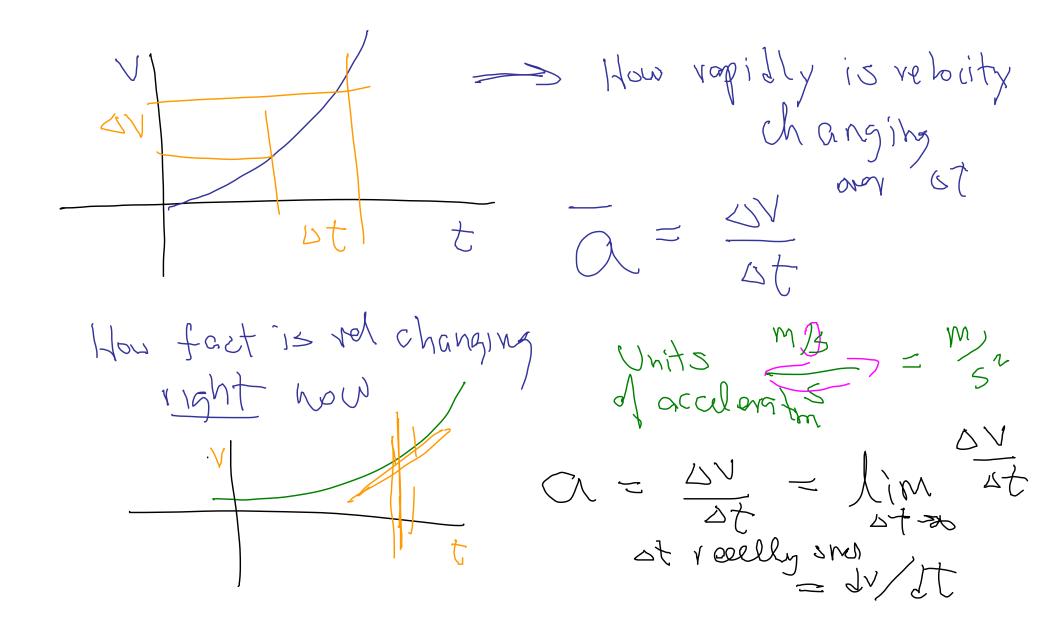
$$b = 2ct$$
 $t = \frac{82^{3}}{2(4.9^{3})}$



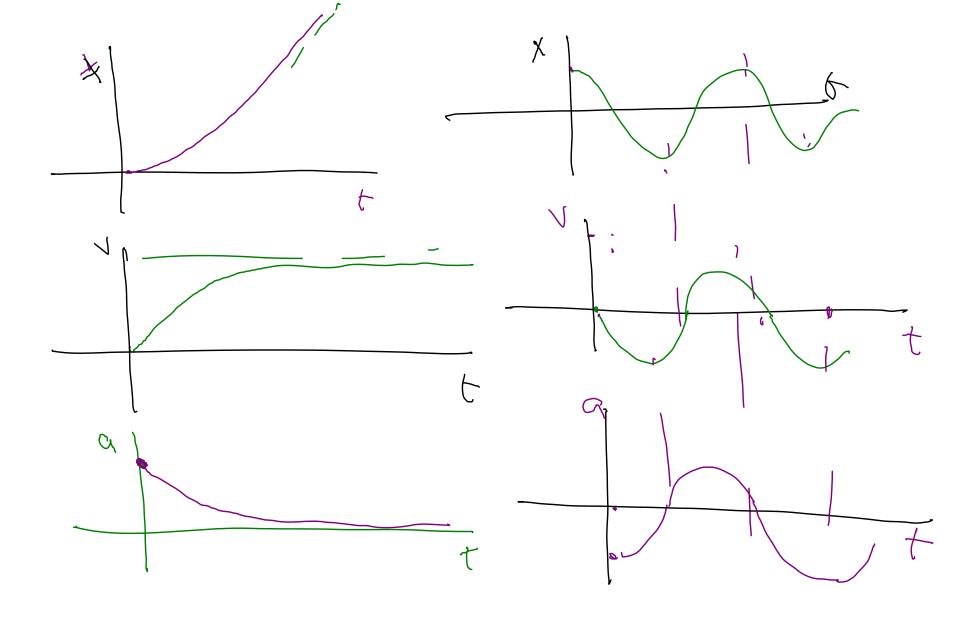




Special case con stant $X = X_0 + V_0 t$ Constant rebaity In general dist / Speed (time)



Pren. excepte 2.21 $\left(\left\{ 2\right\} \right) +$ - 9, 8 m -9.8 E



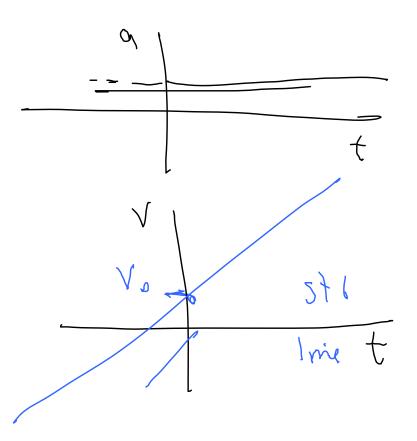
$$\alpha = const = \frac{1}{3}v$$

$$V = at + C$$

$$t = 0 - v = v_0$$

$$V = at + v_0$$

$$V = v_0 + at$$



$$V = V_0 + at$$

$$X = V_0 + t + t + t + t$$

$$C = X_0$$

$$X = X_0 + V_0 + t + t + t + t$$

$$t$$

2.31 A modet vises of constant accel. to an altitude of 85 lm at which point its speed is 2.8 hm a) Whate its acceleration b) How long bes ascent take? V=V=+at X=X0+Vot + batz Combine $V^2 = V_o^2 + 2a(X - X_o)$

nother one only for const accel V=V+2a(1-1/2)

$$\alpha = \frac{v^2 - v_0^2}{2(x - x_0)} = \frac{(2.8 \times 10^3 \text{ m})}{2(85 \times 10^3 \text{ m})} - 0^2$$

$$\alpha = 4.6 \frac{\text{m}}{3^2}$$

$$4.6 \frac{\text{m}}{3^2}$$

$$4.6 \frac{\text{m}}{3^2}$$

$$4.6 \frac{\text{m}}{3^2}$$

Special kind of problem free-fall Acceleration O(15 reg. Ighorivo aiv