## 1/16/19 ACCELERATION

ACCELERATION IS THE RATE AT WHICH AN OBJECT'S VELOCITY CHANGES.

ACCELERATION IS A VECTOR - DIRECTION 15 IMPORTANT.

$$a = \frac{\sqrt{1-v_o}}{t}$$

$$\alpha = ACCELERATION \left( \frac{m_s}{s} e^{m_s} \right)$$

$$m/s/s$$

Notes - Acceleration.notebook January 16, 2014

## ACCELERATION PROBLEMS #1

$$(1a) v_0 = 7.5 \frac{m}{s} t = 3 sec v = 9.1 \frac{m}{s}$$

2 
$$a = \frac{(\sqrt{-v_o})}{t}$$
  
3  $a = \frac{(9.1 - 7.5)}{3}$ 

(5) Solve For t
$$a = \frac{v - v_0}{t}$$

$$.533 = \frac{(9.1 - 7.5)}{t}$$

$$t \times .533 = \frac{1.6}{t} \times t$$

$$\frac{.533 \times t}{.533} = \frac{1.6}{.533}$$

$$t = 3.002 \text{ SEC}$$