Phys 2110-4 3/16/12

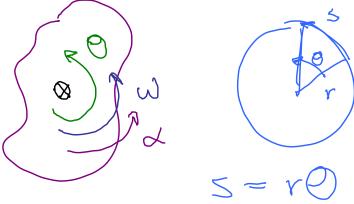
Note Title 3/16/2012

Rotations

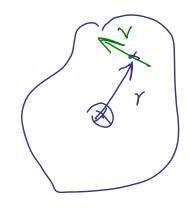
X = gin

O radions





$$W = W_0 + \lambda t$$
 $0 = 0_0 + w_0 t + 2 \lambda t^2$
 $w^2 = w_0^2 + 2 \lambda (0 - 0_0)$



$$V = YW$$

$$Q_{t} = YW^{2}$$

$$Q_{c} = YW^{2}$$

10.15 Express each in radians par second.

a) 720 rpm b) 50% c) 1000 res

50%. $(\pi red / 180 da) = 2.41$ $(\pi red / 180 da) = 2.41$ $(\pi red / 180 da) = 2.41$ 10.18 During startup power plant's turbine accel from vest at 0.52 $\sqrt{52}$ (x). a) How hong does it take to reach its 3600 rpm op. speed? b) How many heris does it make w= 360 ypm
during this time?

$$\omega = 360 \text{ rev/min} \frac{2\pi \text{ val}}{4 \text{ rev}} \frac{1 \text{ min}}{60 \text{ s}}$$

$$= 377 \frac{\text{val}}{5}$$

$$\omega = \omega_0 + 2t$$

$$t = 12 \text{ min}(?)$$