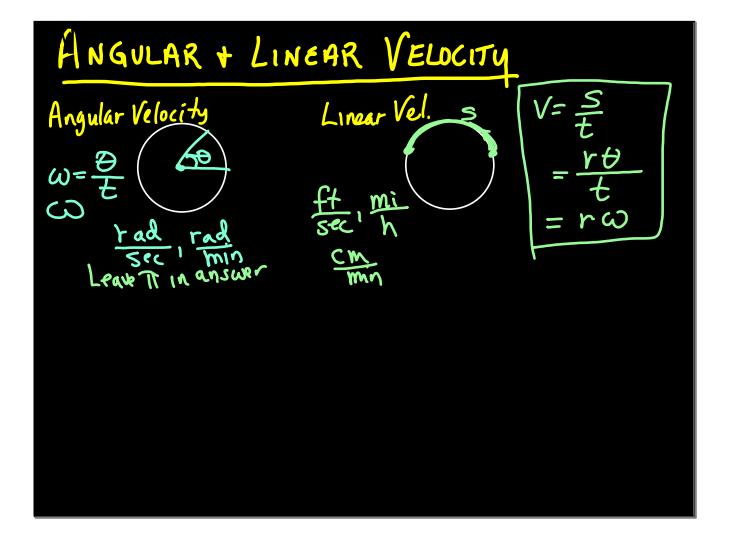


AREA OF SECTOR
$$A = \frac{1}{27} \cdot 10^{2} = \frac{1}{2} \cdot 0^{2}$$

$$Cm^{2}$$

$$A = \frac{1}{2} \cdot 0^{2}$$



A merry-go-round has 6' radius + 15 turning at

10 rev. How fast is a child on the edge moving

min in ft/sec?

V = S = r0 = rw

to ft 10.27 272.5

 $V = 2\pi \text{ rad.}$   $V = \frac{6^{+7} \cdot 10.2\pi}{|\text{min}|} = 377 \frac{\text{ft.}}{|\text{min}|}$ 

Top spinning at 85 rev. What is its angular velocity?

$$\omega = \frac{\theta}{t} = \frac{85.2\pi}{1 \text{ sec}} = 170\pi \text{ rad/sec}$$

Diam=4 in v=2 in V= 2 in 1707 rad = 3407 in sec sec

$$= \frac{340\pi \cdot 3600}{12.5280} = 60.7 \, \text{mi}$$

