	Name: Key	V = w (r)
	Notes - 10.1 Angular Acceleration	15 - 3 (100)
	1. What is the definition of angular speed $\omega$ ? What are the units-of $\omega = \frac{\omega}{\omega}$ which where $\omega$ are velocity and angular speed related?	redothe go: radians go: think of ratio
	3. What is the definition of angular acceleration $\alpha$ ? What are the units $\alpha = \frac{\Delta \omega}{\Delta z}$ which is the definition of angular acceleration $\alpha$ ? What are the units $\alpha = \frac{\Delta \omega}{\Delta z}$	at me
	4. Suppose a teenager puts her bicycle on its back and starts the refrom rest to a final angular velocity of 250 rpm in 5.00 s.	ar wheel spinning
	A. Calculate the angular acceleration in rad/s2. Show your wo	rk.
	d= 100 = - (26,2, rad) = 5.241	52
how long does it take the wheel to stop? Show your work.		
	a = AW -87.3 rad/s = -26.2 rud/s =>	1∆t= 0.3s
"line  acce	5. How are tangential acceleration and angular acceleration related?	
	6. Distinguish between tangential acceleration (a <sub>t</sub> ) and centripetal acceleration (a <sub>t</sub> ) acc	cceleration (a <sub>c</sub> )?
	7. A powerful motorcycle can accelerate from 0 to 30.0 m/s (about What is the angular acceleration of its 0.320-m-radius wheels? Sho	108 km/h) in 4.20 s. w your work.
	$A_t = \alpha = \frac{\Delta V}{\Delta t} = \frac{30 \text{ m/s}}{4,25} = 7.14 \text{ m/s}^2$	.44
	$\alpha = \alpha = 37.14 \text{ m/s}^2 = \alpha \left(0.32 \text{ m}\right)$	rolad 52
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