

· What is the equal m for angular displacement

Review of Rotational Kinematics Rotational Metion of Rigid Objects

angular displacement

· What are the units of angular displanement?

· What does is represel!

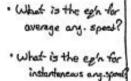
Rigid Object rotations about fixed axis O in Z-direction

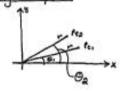
> 0=0, when it is along x-axis 0 >0, CCW relation

0 = 3/r , where s is are length

[O] = radians 40 = angular displacement

angular speed





avg. angular speed, ₩= 00 - 01/to-t, instautaneous ang. speed, # W= 49/4t

w>0, ⊖ increasing in CCW direction

[sx] = red/s=

[w]= rod/s

· How do we define instantaneous angular acceleration?

angular acceleration avg. ang. acc., at wo - w/to-t,

inst. ang. acc, or . dw/26 a >0, w increases w/ time ar < 0, w decreases w/ time

Angular displacement is AO, where O= 5/1= are length/radius

[0] = radians Angular relocity is w, where w = do/at = change in the [w] = rad/s

Angular acceleration is or where ore dulte change in angular sored [or] = red/so