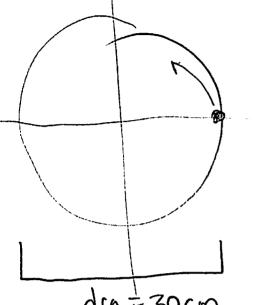
Phys 233-Ch7 part1 Feb 21 2017 measure coapter clockwise 5 - arclength O(radians) = 5 = arclast Angular So, anange of I radian has an arclength, s=1 \* where is this in degrees? % \(\zerr \) 57.3 5- $=\frac{44}{7}=6.78$ Xun my Circum = 5 = ITT = 2TT rad

Fe521 2017 Phys 233-Ch7 pmt1 uniform linear motion AX2 = ZAX, DIX = DISPlacemit Uniform Circular motion angular w = angular dist = A/O Velocity w = angular dist = A/O linear velocity of - linear Disp = DX

Rocheffe Wheel

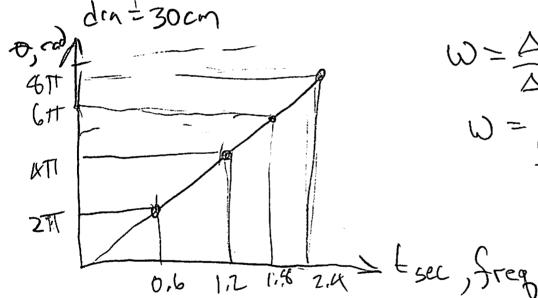
ball travels 2 revolutions In 1.7 sec



0 - Di

What is its angular Velocity?

What is the position @ += 2.0 sec.



W= AD = ATTrad 1.2 Sec rad = 57.3°

Dogular position et=2,0 sec 05 = 0; + Wat = 0+ 10.47 rad . 2.0 sec = 20.94 rad sec

Phys 233-Ch7 pnt/ Fe5 21 2017 Positin 20,99 rad rad Trad COV 6.24 rad 20,94 rw = 3.33 x2 M/2) 211-9 27 12.56 FAD ATT rad =3xZ1) MJ +0.33x211 617 500 14.B4 md 25.12 rad = 3 revolutions+0,33 reus 8 H (4) 120° = 3 revs + 0.33, 2.32 m 0,3357540 2.09 000 =3000 S+2.09 FW =3000s+2.09x 57.3 = 3 revs + 120° Kroug

Phys 233 CA7 part1 Fe521 2017 ball 2 ress in 1,2 sec RouldeWhed 120° 60 0 33 x2TT cq2 oc 2.27 In 1,2500 2,09-60 2.2.22 in 1.2 sec ド 0°=0' 7 revs In 1,2 sec 2.360° In 1.25ec 4TT-W= DO - 41. rad At 1,25ec Brhd 0.334.21 = 4(3.14) rad UTF W = 10,47 rad/gec WTT -Ly Srigis Where is HZ, 211 20 1.12 0.0 2.05cc