Disk lab # 4

Inquiry

Design procedure, Collect data, calculate, enter…

1. Trans speed, data table, og eq, enter answer

Enter in m/s…

1. Translational acceleration (regular acceleration)
2. Angular displacement on the ramp!! In rotations

Ramp length/Circumference = rotations

 Dimensional analysis rot🡪rad

Enter in rad…

1. Angular speed at the bottom of the ramp

Use distance angular displacement OFF the ramp, over time.

1. Angular acceleration on the ramp… use angular displacement ON the ramp initial and final angular velocity.

 In a picture indicate, the length of the ramp, time down the( t1) ramp

Translational KE at the bottom