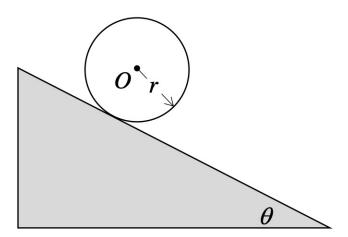
Homework H5.K

Given: The center of the homogeneous disk of mass m shown below has an initial velocity of v_0 up the slope.

Find: Find the velocity of the disk after an elapsed time of Δt , assuming that the disk rolls without slip.



Use the following parameters in your analysis: m=10 kg, r=0.5 m, $\theta=30^\circ, v_0=30$ m/s and $\Delta t=12$ s.

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