

Learning Exercise 9a: Work-Energy Methods in Dynamics

Objective: To be able to apply the work-energy method to analyze the motion of a rigid body and systems of rigid body in translation, rotation, and general motion. To be able to recognize from the set of parameters given and desired whether Newton's Laws or Work-Energy is a better choice for modeling motion.

1. Compute $U_{1 \rightarrow 2}$, the work done by a 100 lb force as it takes the directions shown and moves along each of the different paths from point 1 to point 2 below.



