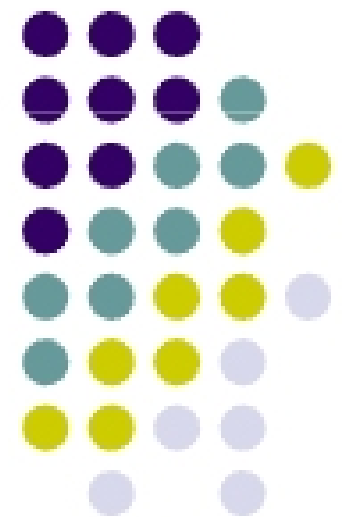
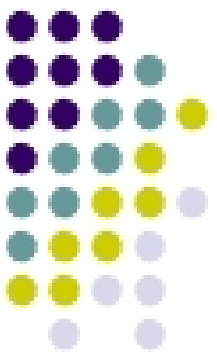


ADAMS Assignment 1

ME451: Kinematics and Dynamics of
Machine Systems
Fall 2011

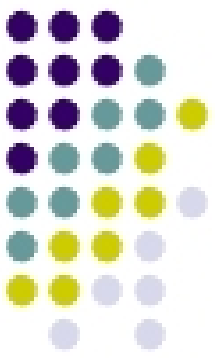




Problem Definition

1. Using ADAMS, find the displacement, velocity, and acceleration of a ball (mass = 1 kg) after 3 seconds, when the ball falls freely under gravity (assume no aerodynamic drag forces).
2. Compare the ADAMS results with the analytical solution. Show all the calculations.

ADAMS Help



- Start ADAMS/View.
- In the Welcome dialog box
 - Under the heading, **How would you like to proceed**, select **Create a new model**.
 - Set some working directory where all the ADAMS related files will be saved.
 - e.g. I:\ME451\AdamsDir
 - Name the model **falling_ball**.
 - Verify that **Gravity** is set to **Earth Normal (-Global Y)**.
 - Verify that **Units** are set to **MMKS - mm, Kg, N, s, deg**.
- Select **OK**.