

Lesson 52 - Spring Mass Systems II

Objectives

- Model initial value problems involving a spring mass system.
- Solve problems involving, free undamped, damped, and driven motion.
- Understand critically damped, under damped, and over damped spring mass systems.
- Be able to describe the long term behavior of a spring mass system.

READ

- Review the previous lesson's reading.

THINK ABOUT

- What is the form for any linear second order differential equation?
- What is meant by constant coefficients?
- What exactly does damping do?
- What exactly does a spring constant do to a spring?

MATHEMATICA COMMANDS AND TASKS YOU NEED TO KNOW

No new commands.