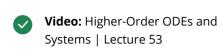
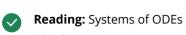
### **Introduction to Week Five**

#### **Initial Value Problems**

## **Systems of Differential Equations**





10 min

# Initial Value Problems in MATLAB

### **Boundary Value Problems**

Quiz

Programming Assignment: The Two-Body Problem

# Systems of ODEs

Write down the modified Euler method (second-order Runge-Kutta method) for the system of equations given by

 $\dot x = f(t,x,y,z), \qquad \dot y = g(t,x,y,z), \qquad \dot z = h(t,x,y,z).$ 

✓ Completed Go to next item

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