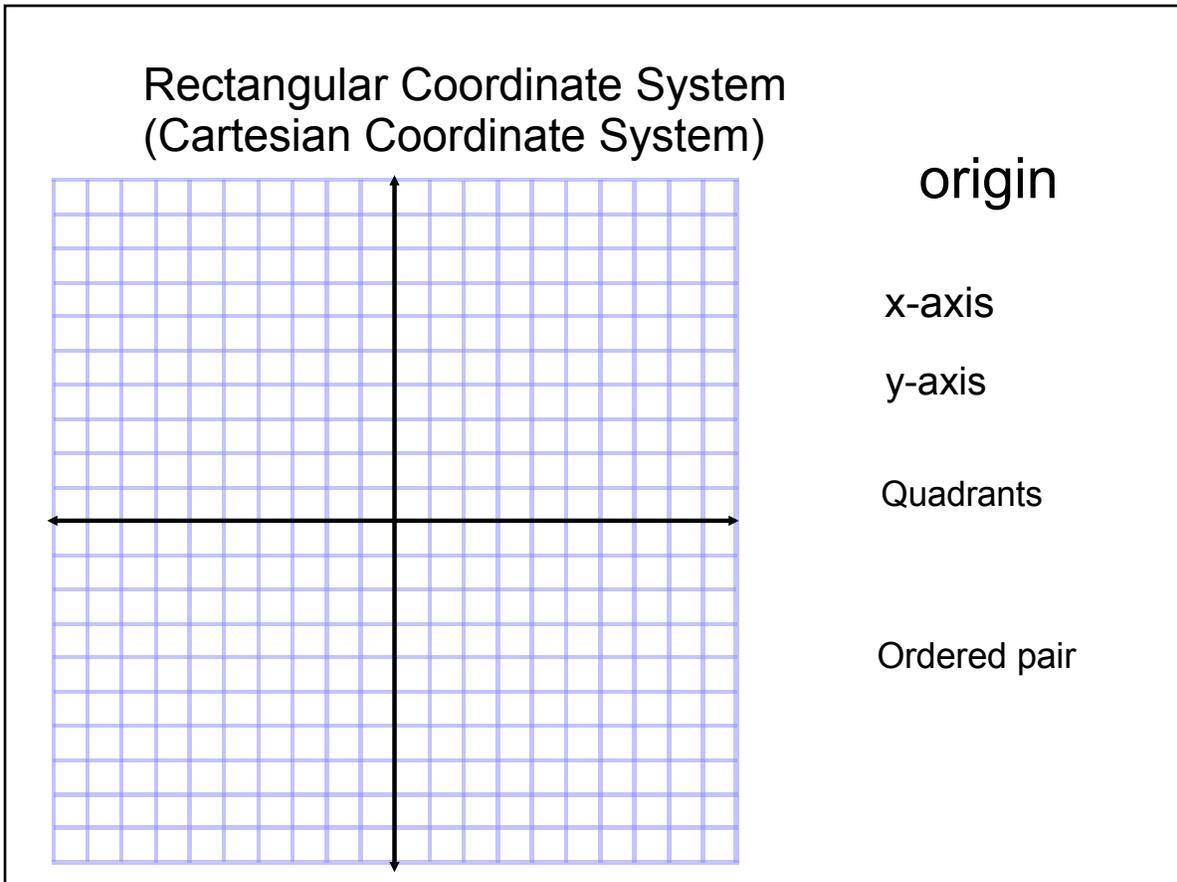


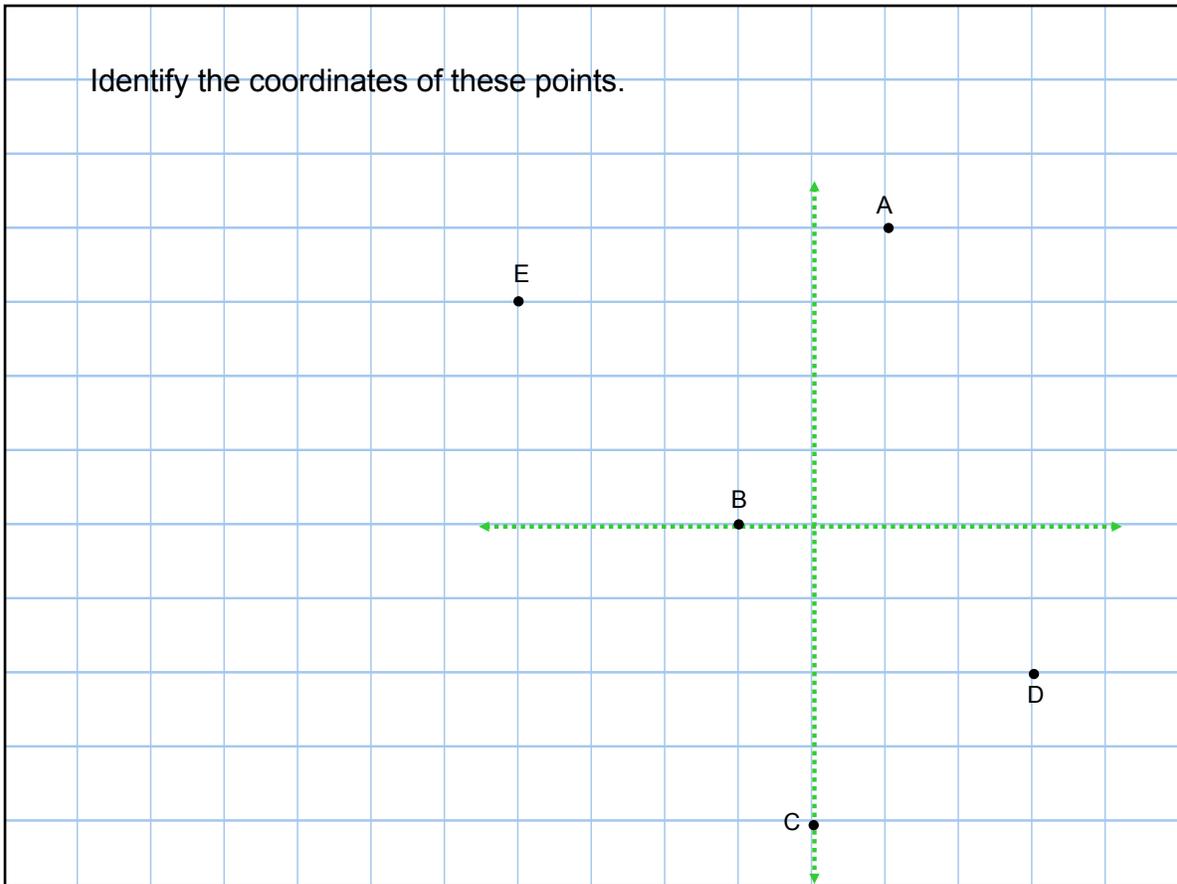
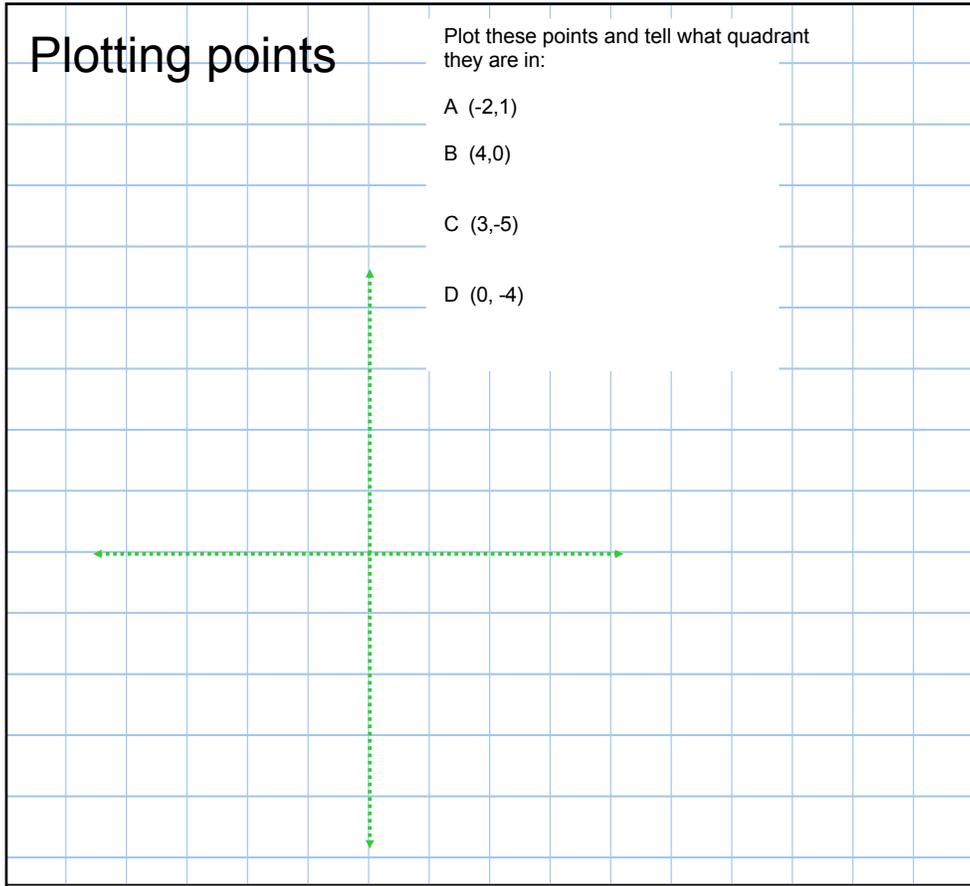
MATH 1010 ~ Intermediate Algebra Chapter 3: GRAPHS AND FUNCTIONS

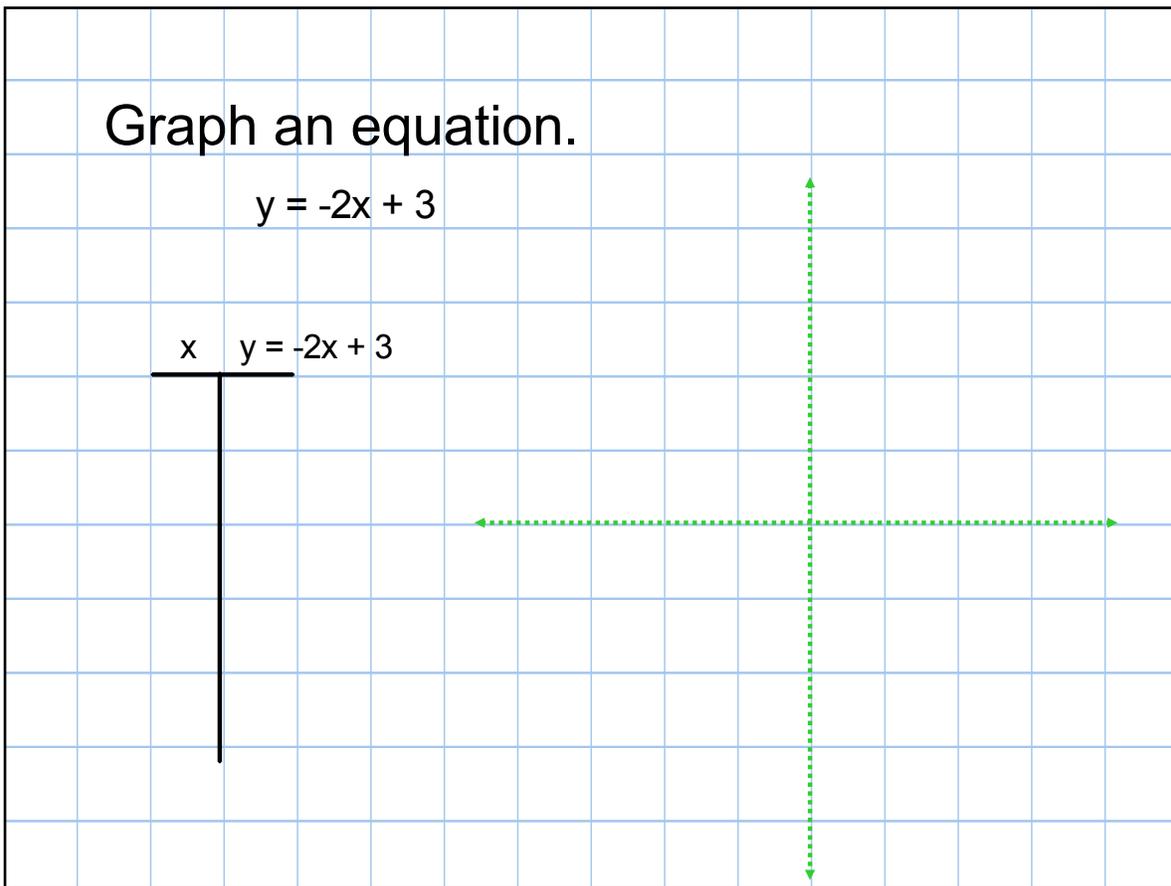
Section 3.1: The Rectangular Coordinate System

Objectives:

- ⌘ Plot points on a rectangular coordinate system.
- ⌘ Determine whether an ordered pair is a solution of an equation.
- ⌘ Use the Distance Formula to find the distance between two points.
- ⌘ Use the Midpoint Formula to find the midpoint of a segment.







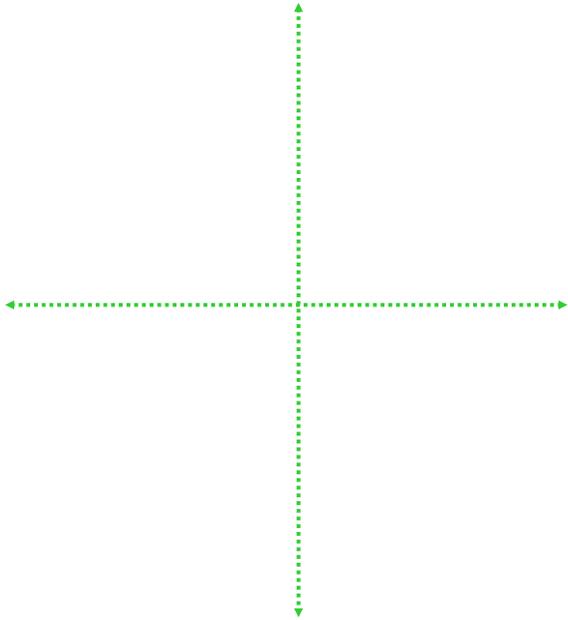
① EXAMPLE

Check to see if each ordered pair is a solution of the equation.

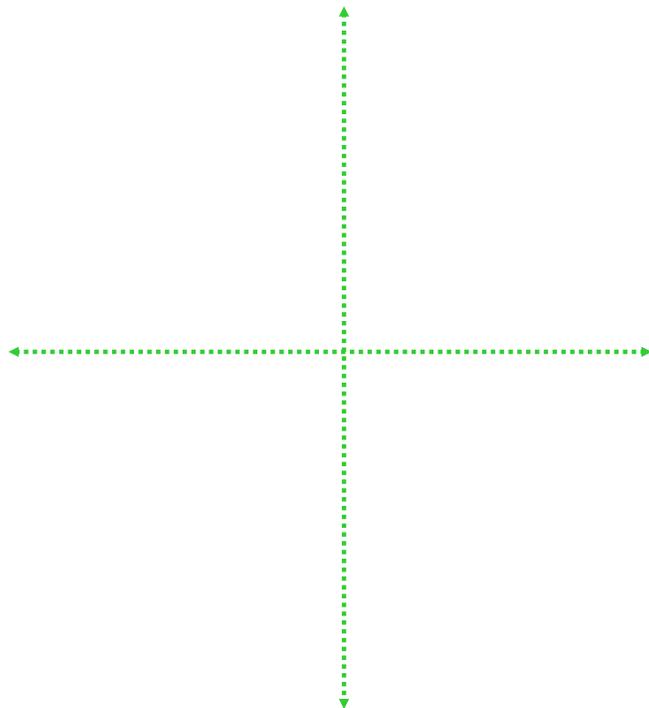
$$y^2 - 4x = 8$$

- a. (0,6)
- b. (-1,-2)
- c. (-1,3)
- d. (2,4)

Distance between two points



Midpoint of a segment



② EXAMPLE

Find the distance between these two points: $(0,-5)$ and $(2,-8)$.

Find the midpoint of the segment above.

③ EXAMPLE

Show that these points are the vertices of a right triangle.

A $(0,9)$ B $(9,4)$ C $(2,2)$