7.1-7.2 Study Guide

Solve a System of Equations by Graphing or Substitution

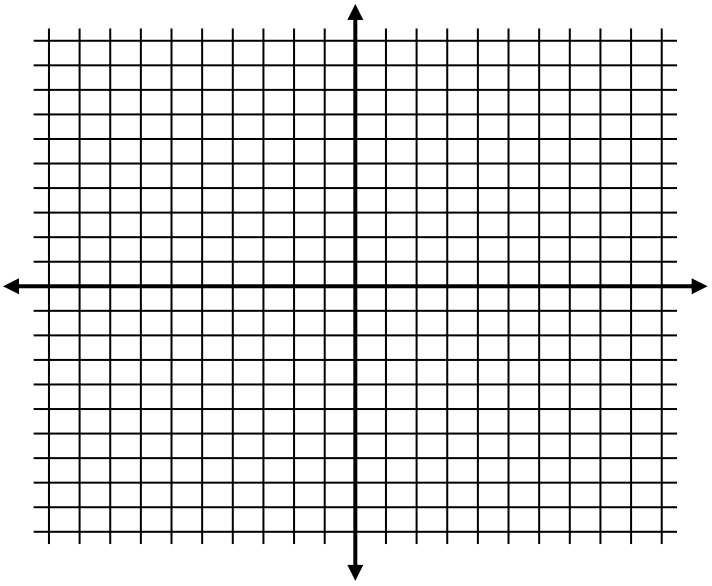
7.1: Solve Systems of Equations by Graphing:

- Be able to identify an ordered pair as a solution to a system

  Ex: Is (5, 2) a solution to the system: $2x - 3y = 4$
  $2x + 8y = 11$

- Be able to find a solution to a system of equations by graphing

  Ex: Solve the system by graphing: $2y - 4x = 12$
  $6x + 3y = -6$



7.2: Solve Systems of Equations by Substitution:

- Be able to solve a system of equations by substitution

  Ex: $y = x - 2$
  $x = 17 - 4y$

  Ex: $5x + 2y = 9$
  $x + y = -3$

Ex: $y = x - 4$
$y = 18 + 2x$

- Be able to write a linear system and solve

Ex: John and David went to the store to buy notebooks and markers. John bought one notebook and two boxes of markers and spent $11. David bought three notebooks and five boxes of markers and spent $29.

a) Identify two variables to represent what you do not know.

b) Write a system of equations to represent the situation.

c) Find the cost of a notebook. Find the cost of a box of markers.

d) Find the total cost if someone wanted to buy three notebooks and two boxes of markers.