

**7.1-7.2 Study Guide**  
**Solve a System of Equations by Graphing or Substitution**

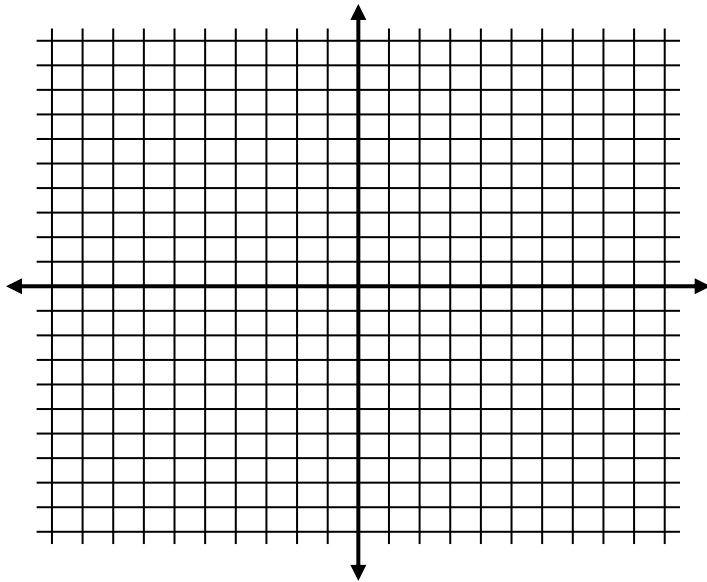
**7.1: Solve Systems of Equations by Graphing:**

- 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 two notebooks and four boxes of markers and spent \$22.

- Identify two variables to represent what you do not know.
- Write a system of equations to represent the situation.
- Find the cost of a notebook. Find the cost of a box of markers.
- Find the total cost if someone wanted to buy three notebooks and two boxes of markers.