1. Consider the system of of linear equations

$$2x + 3y = 5$$
$$4x - 2y = 12$$

   (a) Find the solution(s) to the system.

   (b) Graph the two lines.

   (c) How is the solution in (a) related to the graph in (b)?

2. Repeat #1 with the system

$$3x + 6y = 2$$
$$-x - 2y = 1$$

3. Repeat #1 with the system

$$2x + 2y = 4$$
$$3x + 3y = 6$$

Recap for Today

- There is a strong connection between a system of linear equations and the graphs corresponding to those equations.

  This can help us understand whether a system has no solutions, a unique solution, or infinitely many solutions.

- We can systematically solve a system of linear equations.