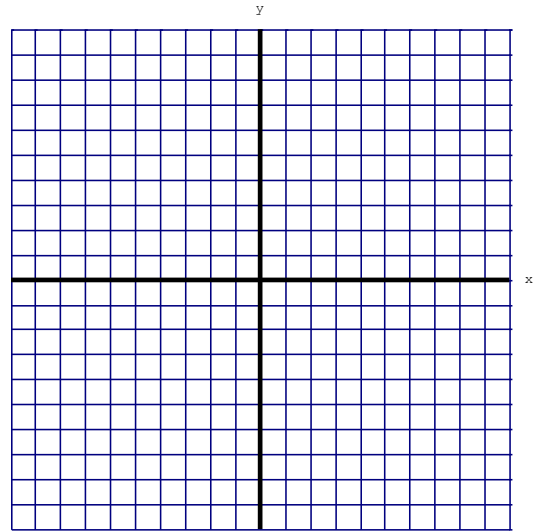Solve the system by graphing.
$$4x - 6y = -18$$
$$-10x + 2y = -20$$

Draw a sketch of each of the following:

1. A system of linear equations with one solution.

2. A system of linear equations with no solution.

3. A system of linear equations with infinite solutions.

4. A system of one linear equation and one quadratic equation with two solutions.

5. A system of one linear equation and one quadratic equation with one solution.

6. A system of one linear equation and one quadratic equation with no solution.

7. Can you have a system of two quadratic equations?

8. If yes (to question 7), draw as many possible solutions as you can think of. →

9. If no (to question 7), explain why not.