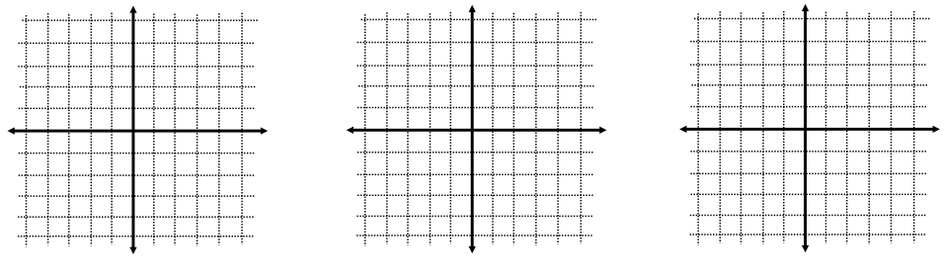
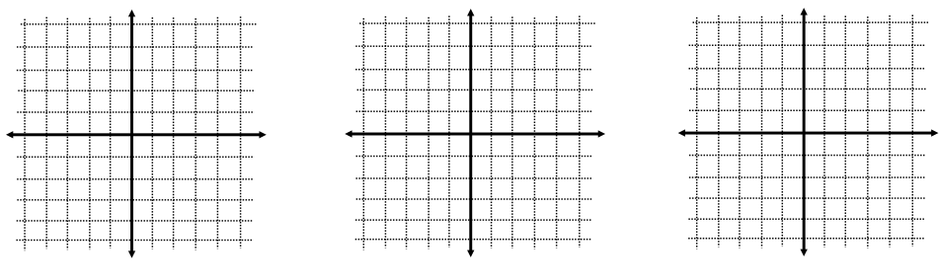
8.1 Solving Systems Graphically

* The solutions to a system of equations are the [ ] of the points of [ ], if they exist, of the graphs of the functions.

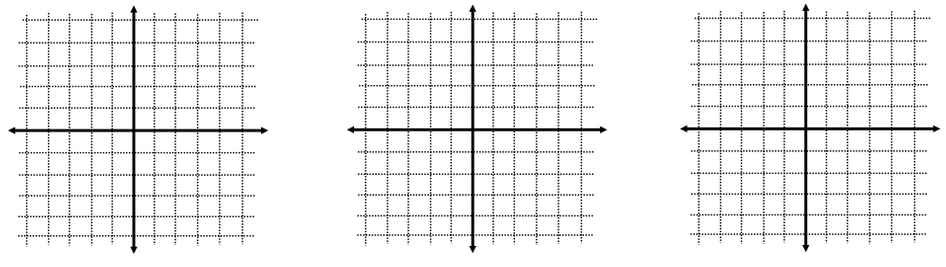
> with 2 linear equations, there can be 0, 1, or infinite solutions



> with 1 linear equation and 1 quadratic equation, there can be 0, 1, or 2 solutions



> with 2 quadratic equations, there can be 0, 1, 2 or infinite solutions

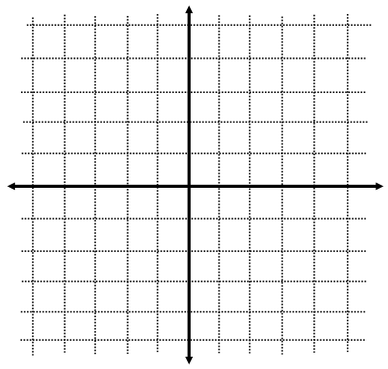


See example 1 pg. 427

ex. Solve graphically:

$4x - y + 3 = 0$

$2x^2 + 8x - y + 3 = 0$

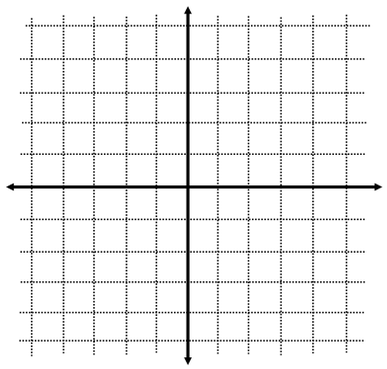


your turn pg. 429

ex. Solve graphically:

$2x^2 - 16x - y = -35$

$2x^2 - 8x - y = -11$



Your turn pg. 430

Homefun: Pg. 435 #1-3, 4acd, 7, 9-11, 14, 17