

SECTION 3.5: NONLINEAR SYSTEMS

Homework: _____

Learning Targets:

- 3d. Understanding of how to find solutions to nonlinear systems of equations.

Nonlinear Systems: two or more _____. You can solve by _____ and find the _____. You can also use _____ or _____

Find intersections on a calculator

1. Plug each equation into Y =
2. Find the intersection
 - a. 2nd TRACE
 - b. #5: Intersection
 - c. Move your cursor to the intersection and hit enter until "Intersection" appears
 - d. Do the same process for the 2nd intersection (if there is one)

Solve by graphing and substitution.

1. $y = x + 6$
 $y = \frac{1}{2}(x + 6)^2$

2. $y = (x + 2)^2 - 3$
 $y = -3$

