

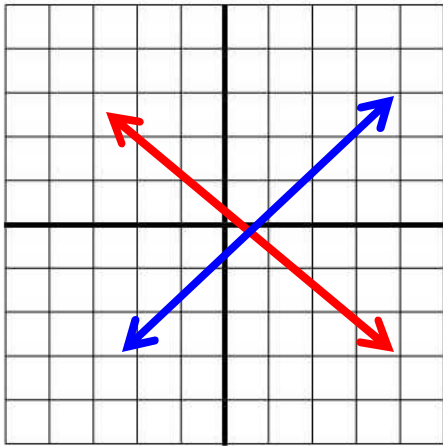
3.1 Solving Systems of Equations by Graphing

- 1) Solve systems of equations by graphing,
- 2) Determine the type of systems of equations.

The answer to the system of equations is the point where the graphs intersect...

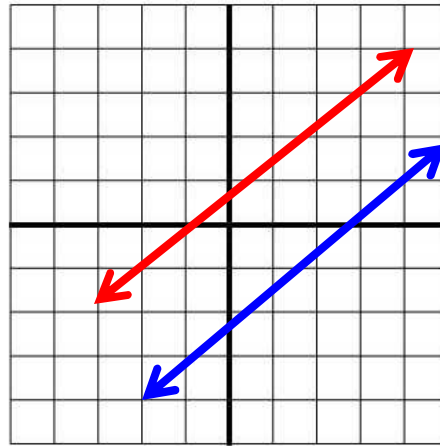
Classifying Systems of Equations

Intersecting
(One Solution)



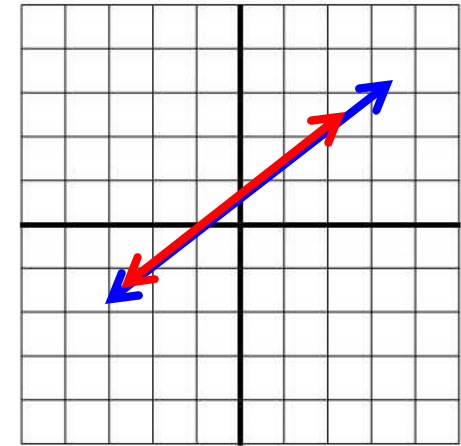
Consistent
Independent

Parallel
(No Solution)



Inconsistent

Same Line
(All Solutions)

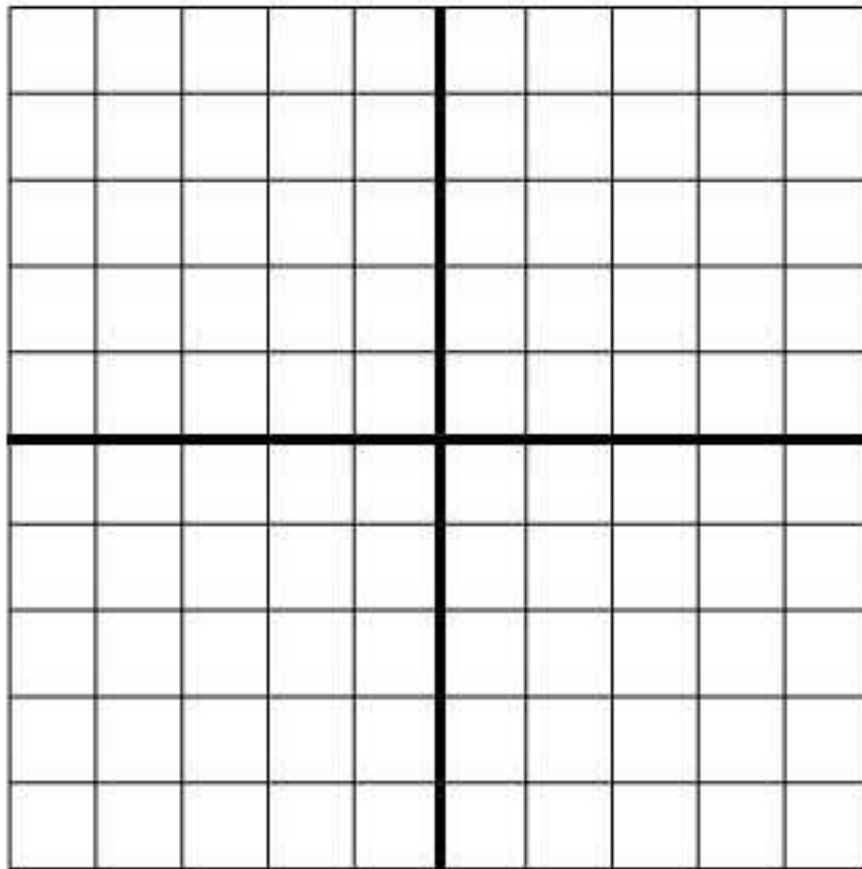


Consistent
Dependent

(Intersecting)

Solve by graphing:

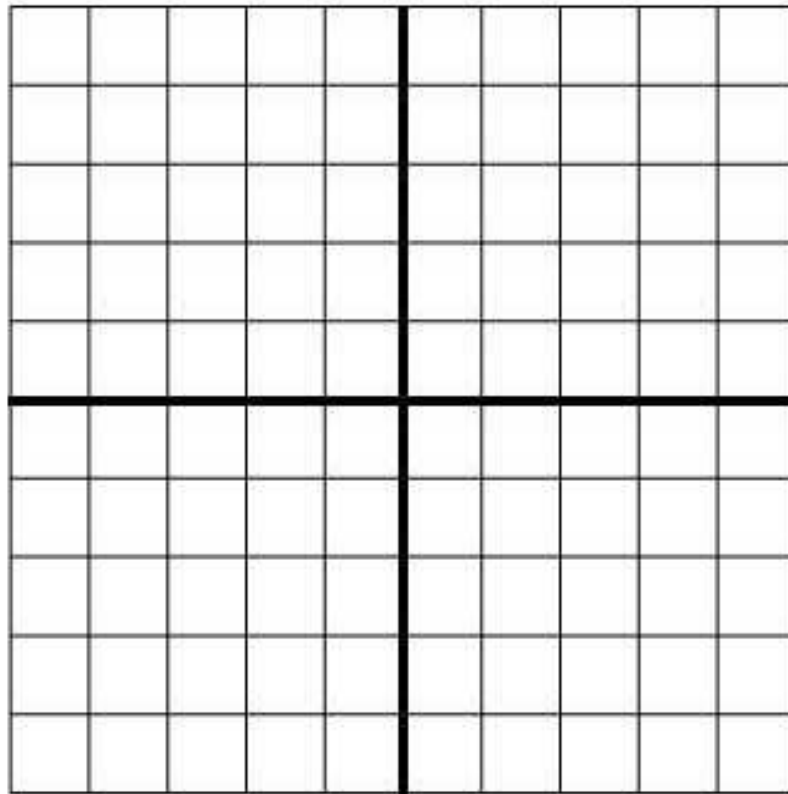
$$2x + y = 5 \text{ and } x - y = 1$$



(Same Line)

Solve by graphing:

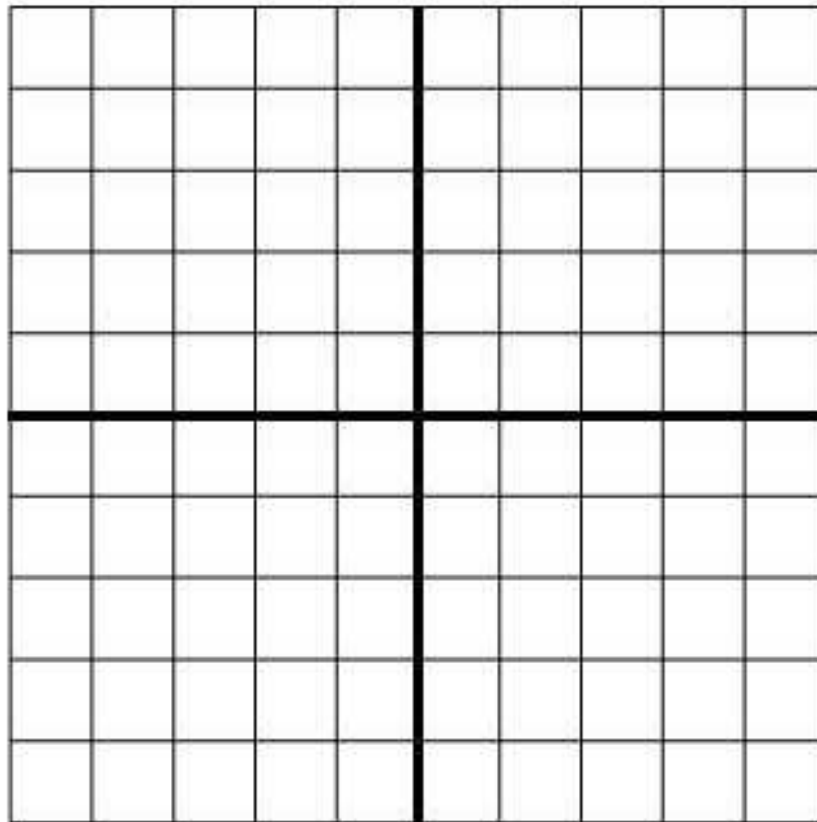
$$2x + 3y = 4 \text{ and } 4x + 6y = 8$$



(No Solutions)

Solve by Graphing:

$$3x + 4y = 12 \text{ and } 6x + 8y = 8$$



Homework

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