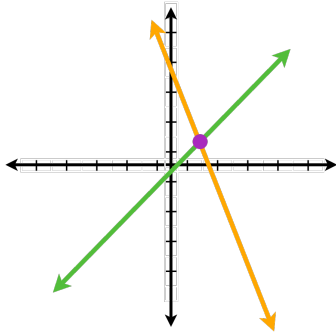
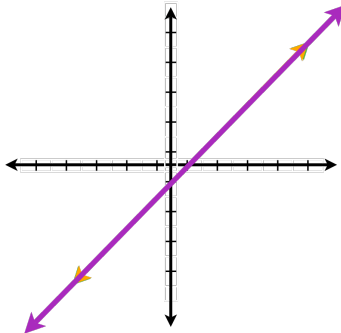


Three outcomes when solving linear systems by graphing

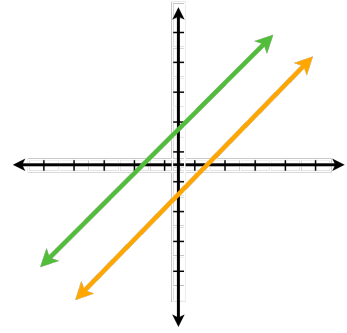
Different Lines



Same Line



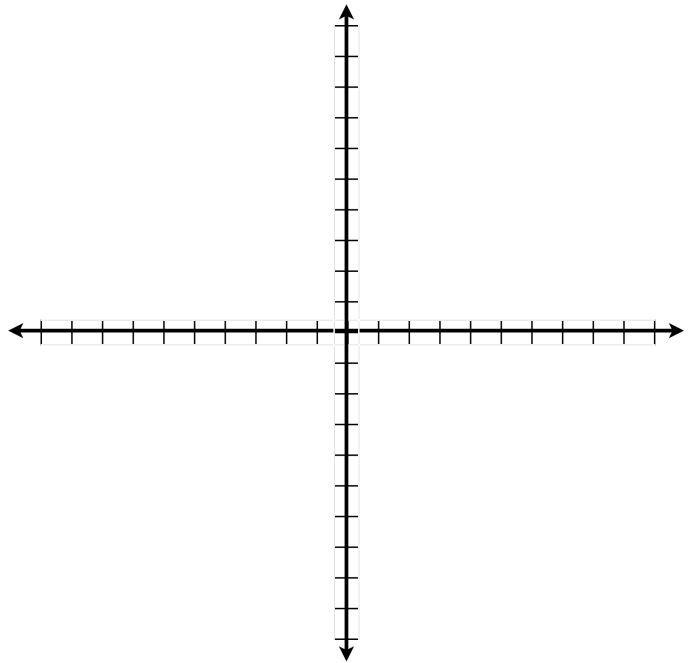
Parallel Lines



Solve the system of linear equations:

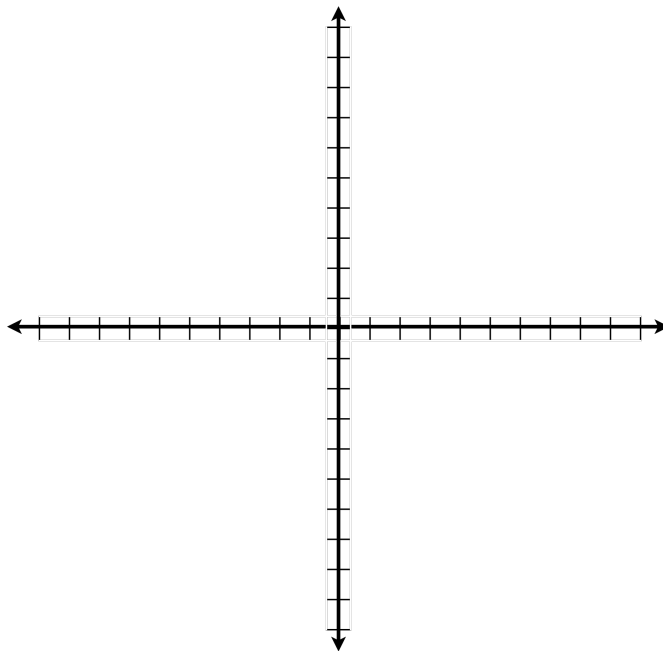
$$y = -x + 5$$

$$y = 2x - 1$$



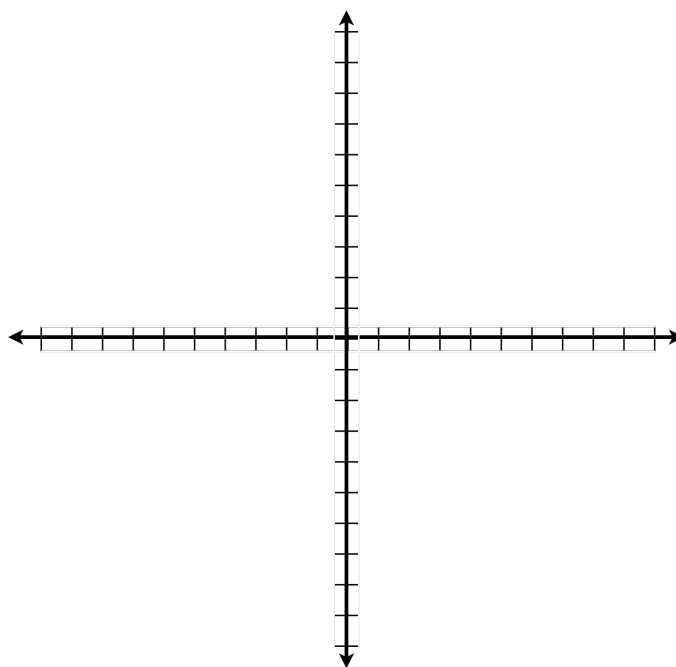
Solve the system of linear equations:

$$3x - y = -2 \quad x - y = -4$$



Solve the system of linear equations:

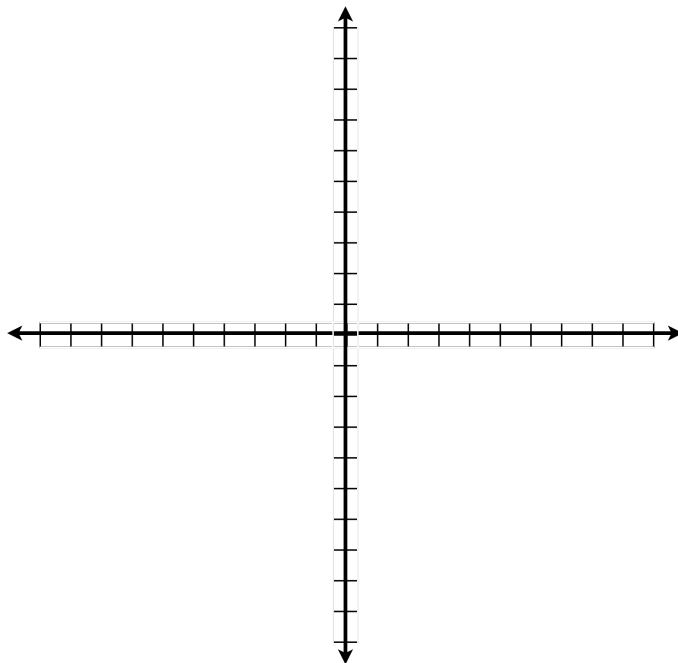
$$2x + y = 3 \quad 6x + 3y = 9$$



Solve the system of linear equations:

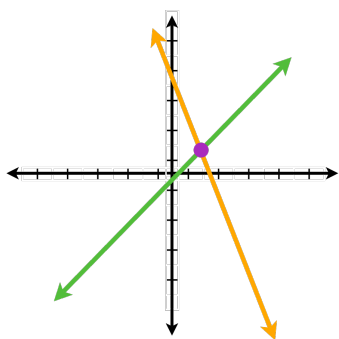
$$y - 3 = 3x$$

$$3x - y = 4$$



Three outcomes when solving linear systems by graphing

Different Lines

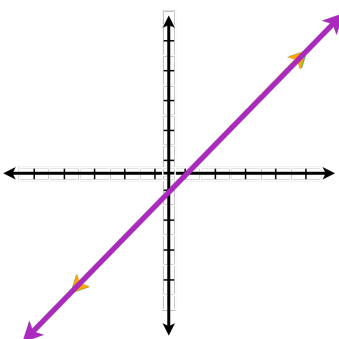


One Solution (x, y)

System is consistent

Equations are independent

Same Line

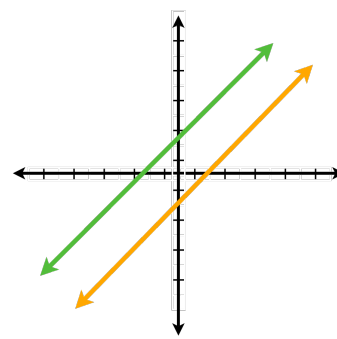


Infinitely Many Solutions

System is consistent

Equations are dependent

Parallel Lines



No Solutions

System is inconsistent