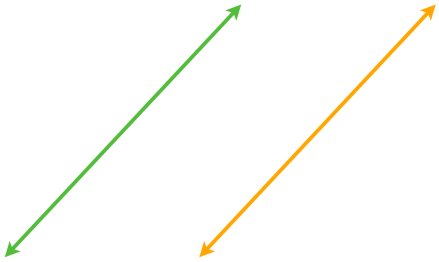
# Parallel and Perpendicular Lines

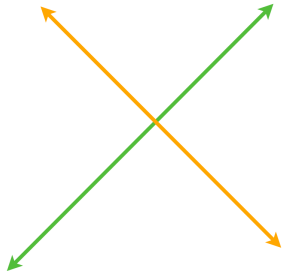
Name _____

Date _____ Period _____

## Parallel Lines



## Perpendicular Lines



Given Line: Slope = -2

Parallel Line:

Perpendicular Line:

Given Line: Slope = 1

Parallel Line:

Perpendicular Line:

Given Line: Slope = $\frac{-3}{4}$

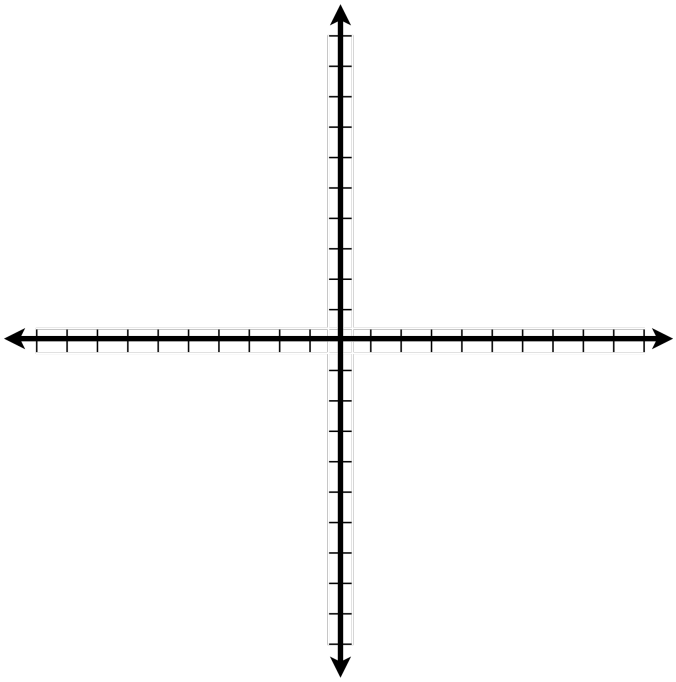
Parallel Line:

Perpendicular Line:

Find the equations of the following line...

Parallel to $y = 2x + 4$

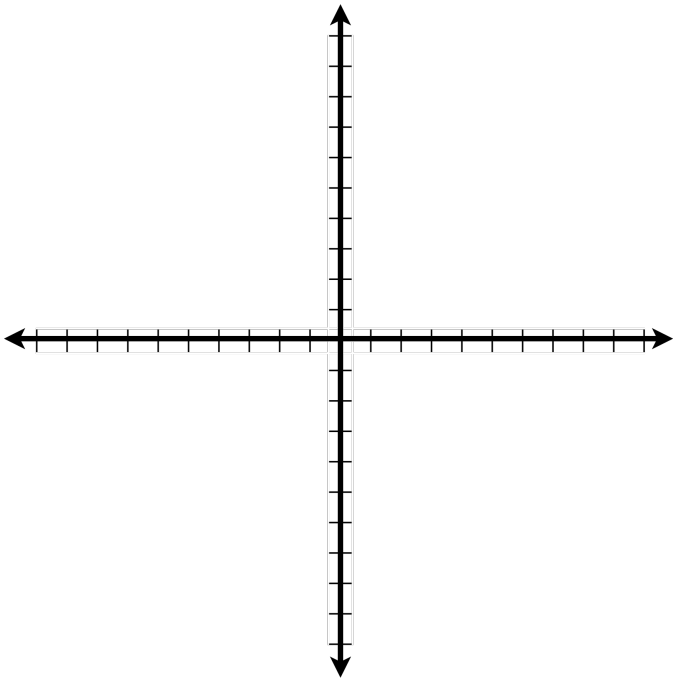
Through Point (2,-6)



Find the equations of the following line...

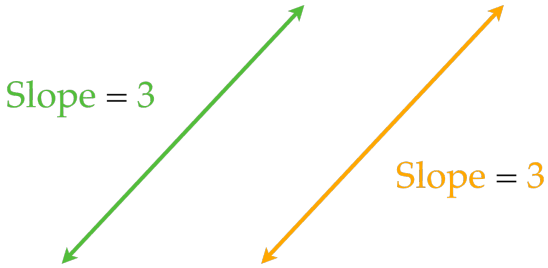
Perpendicular to $y = 2x + 4$

Through Point (2,-6)



## Parallel Lines

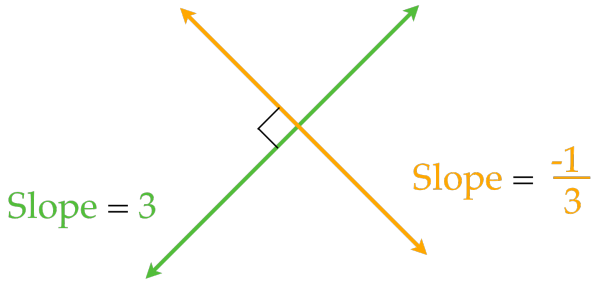
Two lines in a plane that do not intersect




Parallel Lines have the Same Slope

## Perpendicular Lines

Two lines in a plane that intersect to form a 90° angle




Perpendicular Lines have Opposite Reciprocal Slopes