

1.1

1.1 Review of Lines

Objectives:

- I can define and find slope
- I can write the equation of a line
- I can can graph and write a piecewise function

Name

Definition/Property

Slope

Lines that never intersect in the same plane

Perpendicular Lines

Find the slope of the following

(4, -3) and (2, 5)

x	-8	-4	0	4
f(x)	13	10	7	4

Given the table find the slope

x	f(x)
-1	14/3
1	-4/3
2	-13/3

Name

Definition/Property

Vertical Line

$$y=k$$

Write the equation of the line given $f(2)=3$ and $m= -3/2$

Slope intercept form

$$y=m(x-x_1)+y_1$$

Write the equation of the line given $f(-2)=-1$ and $f(3)=4$

General Form

1.1

Find the slope and x-intercept given
 $8x+5y=20$

State the parallel and perpendicular
 slope of the following

$m=2$

$m=3/4$

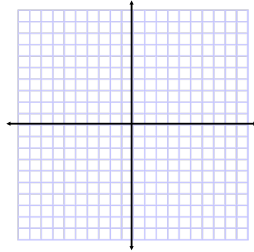
Find an equation for the line through
 $f(-1)=2$ and

a) \parallel to $y=3(x+5)-7$

b) \perp to $y=3(x+5)-7$

Graph the following piecewise function

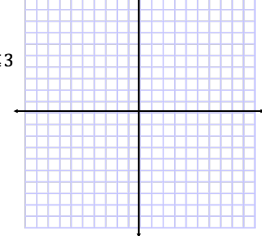
$$f(x) = \begin{cases} x+3, & x < 0 \\ x^2, & 0 \leq x < 2 \\ 4x, & x \geq 2 \end{cases}$$



State the domain and range

Graph the following piecewise function

$$f(x) = \begin{cases} 4-x^2, & x < 1 \\ \frac{3}{2}x + \frac{3}{2}, & 1 \leq x \leq 3 \\ x+3, & x > 3 \end{cases}$$



State the domain and range

Write a piecewise function for the following graph

