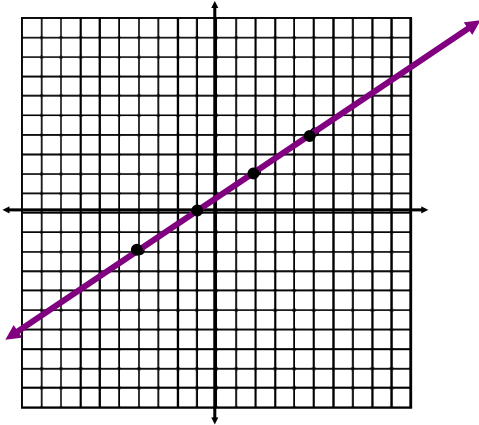


2.1: Linear Function Review

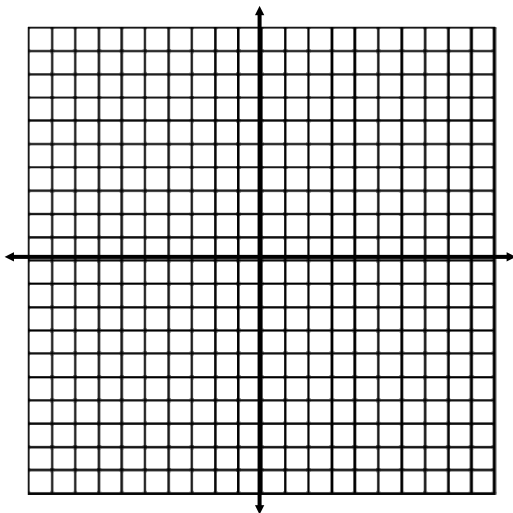
Properties of Linear Functions



Point Slope Form



Example) Write the equation of the line that passes through the points $(8, -3)$ and $(2, 6)$ in point slope form. Then graph it on the provided coordinate plane.



Slope Intercept Form



Example) Write the equation from the last example in slope intercept form.

Standard Form



Example) Write the equation from the last example in standard form.

On your own:

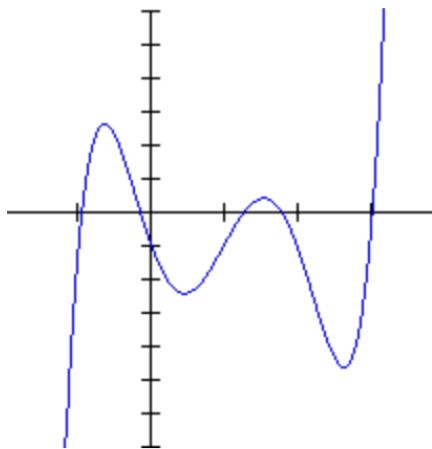
Write the equation of the line that passes through the points $(-4, 2)$ and $(2, -13)$ in point slope, slope intercept, and standard forms. Show all of your work.

Point Slope Form:

Slope Intercept Form:

Standard Form:

Finding x- and y- intercepts of functions



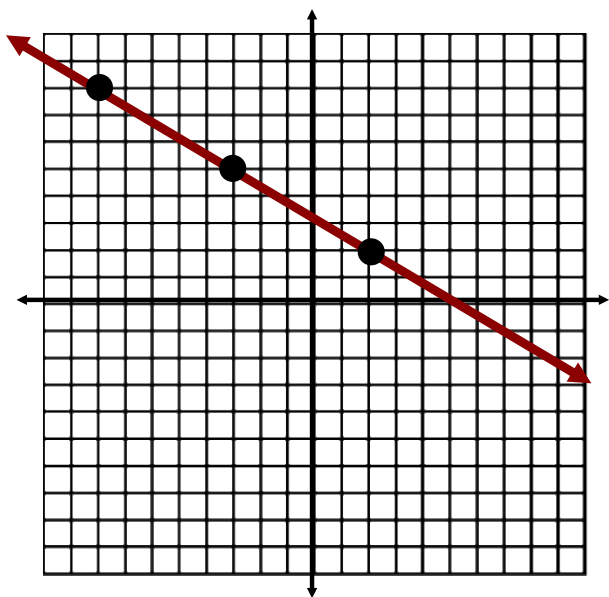
x-intercepts	
y-intercepts	

Example)

Find the x- and y- intercepts of the linear function that passes through the points (8, -3) and (2,6).

Example)

Write the equation of the line graphed in point slope, slope intercept, and standard form. Then give its x- and y-intercepts.

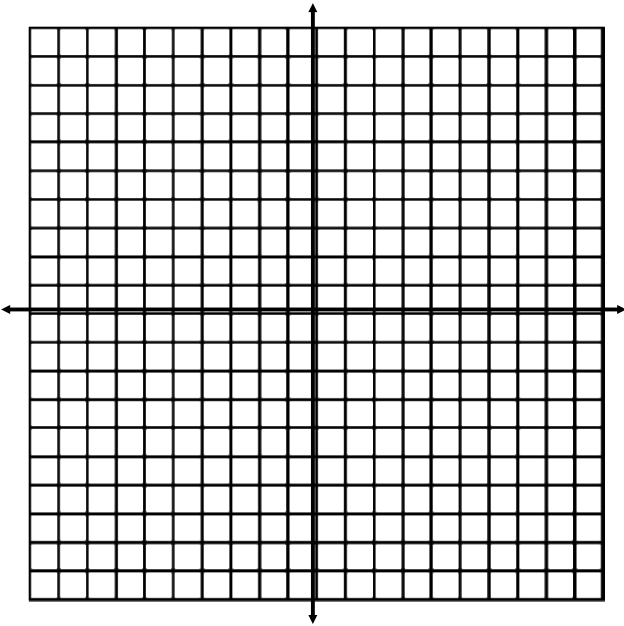


Example) *continuation*

Now give the equation of the line parallel to the line above that passes through the point (-5,0) in point slope form and graph it on the coordinate plane above.

Example)

Graph the line that passes through the point $(3, -2)$ and has a slope of -2 on the provided coordinate plane. Write the equation of the linear function in point slope, slope intercept, and standard form.



Example) *continuation*

Now write the equation of the line that is perpendicular to the line above and passes through the point $(-4, 1)$. Graph it on the coordinate plane above.

Example) *continuation*

What is the intersection of the two lines graphed on the coordinate plane above?