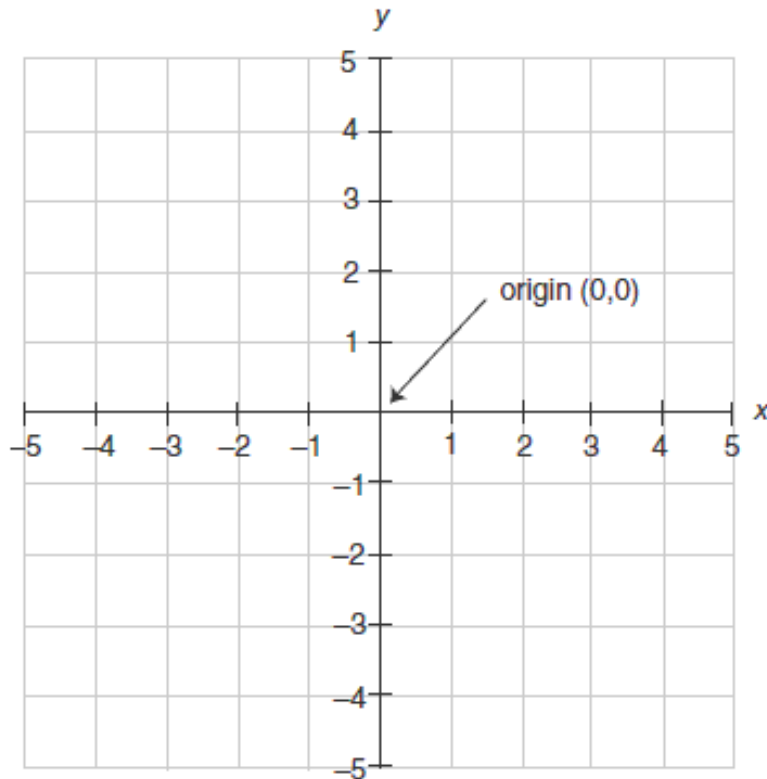


# Welcome to Episode 2 of the E-quip Math PD Series!

Due to the large number of registrants, participants will be muted upon entering the webinar. If you need technical assistance, chat or email Amy Vickers ([Amy.Vickers@mpls.k12.mn.us](mailto:Amy.Vickers@mpls.k12.mn.us)).

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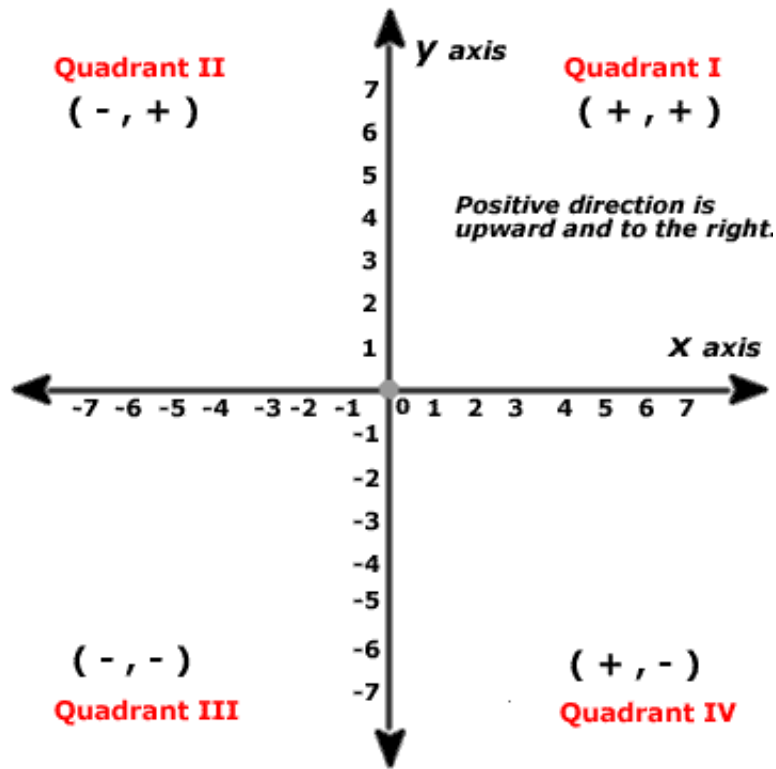
# The Coordinate Plane



The **x-axis** (horizontal) and the **y-axis** (vertical) meet at the origin, a point with the coordinates  $(0,0)$ .

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The quadrants of the coordinate plane are numbered one through four, starting in the upper right quadrant and moving counterclockwise.

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The **independent variable** determines the value of the dependent variable.

Often the independent variable is measured along the x-axis.

It could also be considered the input.

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The value of the **dependent variable** is determined by the independent variable.

Often the dependent variable is measured along the y-axis.

It could also be considered the output.

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A **function** is a set of ordered pairs in which each x value has only one y value.

One way to determine if a graphed line is a function is to do a **vertical line test**. If anywhere that you draw a vertical line through the graph, it crosses the graphed line only one time, it is a function.

Graphed functions include a straight line sloping in any direction and a parabola (U-shaped line) opening up or down. A graph that is not a function is a parabola opening to the side.

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The TI-30XS is the calculator that will be available on screen during the 2014 GED test.

It is **not a graphing calculator**; it does, however have some more advanced functions that can create coordinate pairs when given an equation.

Learn more at [atomiclearning.com](http://atomiclearning.com) or from the small handbook that accompanies the handheld version of the TI-30XS.

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# Concerned about solving and graphing inequalities?

Look closely at the Assessment Targets for the 2014 GED test. Only one-variable inequalities are included. These inequalities are solved just like equations, except that if you multiply or divide by a negative number, you reverse the direction of the inequality sign.

One-variable inequalities are graphed on the number line, not the coordinate grid.

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There is no **trigonometry**  
on the 2014 GED test.

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# Concerned about solving quadratic equations?

Be sure to attend E-quip Episode 4:  
Solving Quadratic Equations on  
*Monday, December 2,*  
3:30 – 4:30pm.

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