Basic Linear Equation

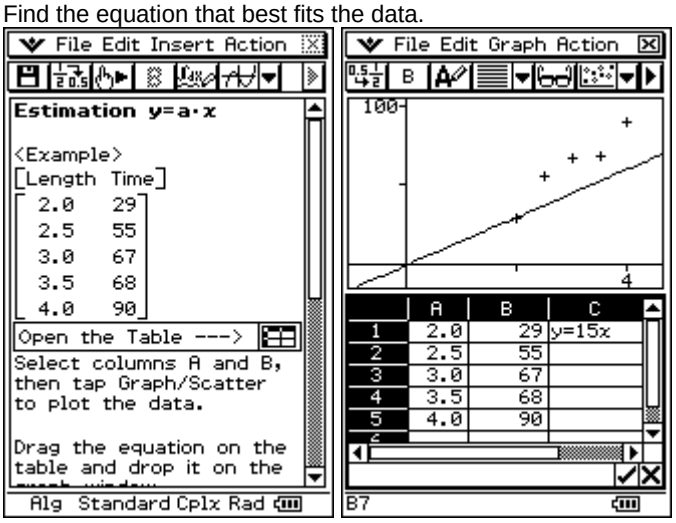
We know when students are just beginning their study of algebra, the basic concepts can be difficult to grasp. These activities are written for teachers to use in their basic algebra classes.

When you find other helpful exercises, add these to your own eActivities.

This file includes eActivities on:
01: Estimation y=ax – Find the equation that best fits the data.
02: Rate (Slope) – Now, find the rate of change for these lines.
03: Graph y=mx+b – With the graph and equation linked, change one and the other also changes.
04: Intersection on the x-, y-axis – Find the y-intercept and root of a line using the ClassPad.
05: Slope-Intercept Form – Write the equation in slope-intercept form by examining the graph.
06: Intersection of Two Lines – See the four different ways to find the intersection of two lines.
07: Parallel and Perpendicular Line– Using the Construct function, draw the lines and find the equations.
08: Slope and Point– Determine the equation when you know the slope and point.
09: Two Points – This time, find and graph the equation when you know two points on the line.
10: Standard Form – Change the equation to the Standard Form to obtain more, useful information.
11: Solve Equation with Absolute Value– Find the equation, both algebraically and with the Solve function.

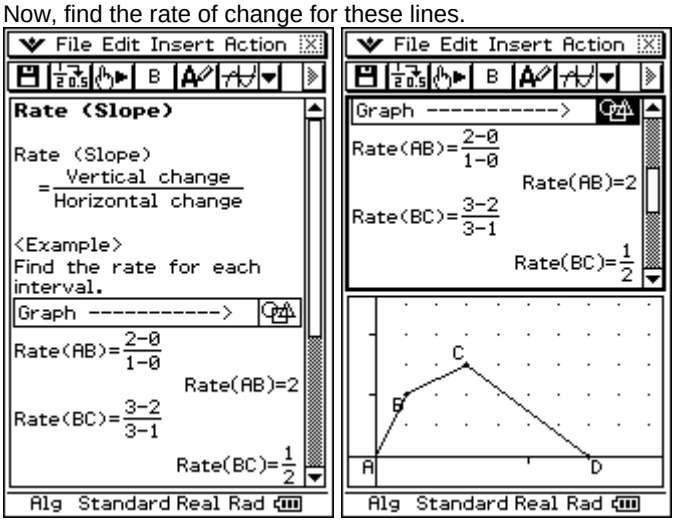
01: Estimation y=ax

Find the equation that best fits the data.



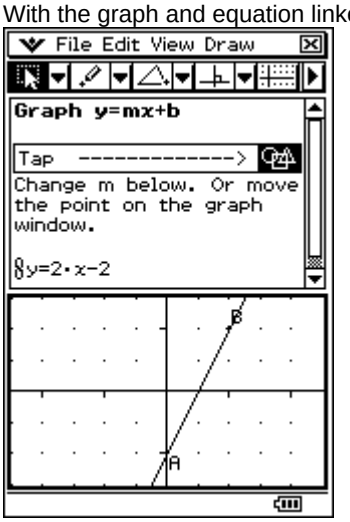
02: Rate (Slope)

Now, find the rate of change for these lines.



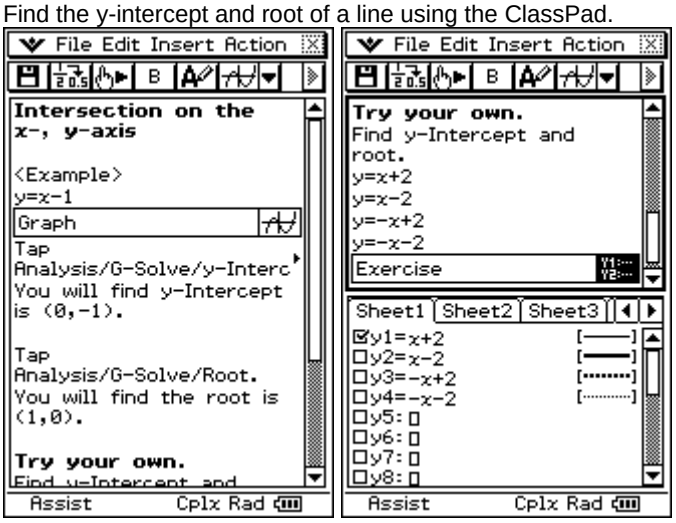
03: Graph y=mx+b

With the graph and equation linked, change one and the other also changes.



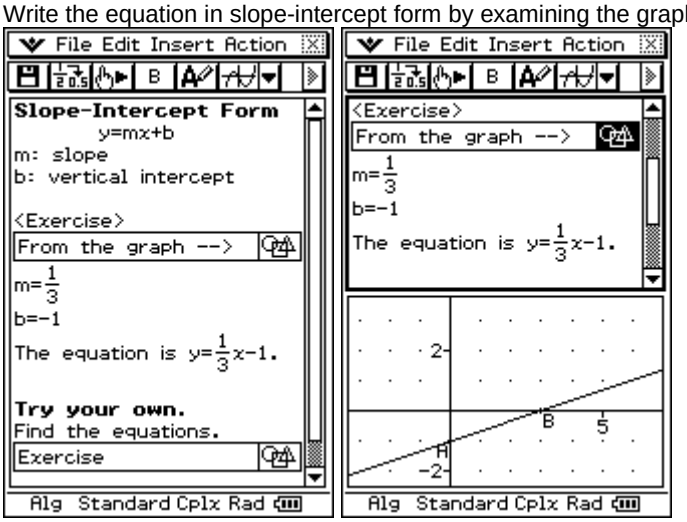
04: Intersection on the x-, y-axis

Find the y-intercept and root of a line using the ClassPad.



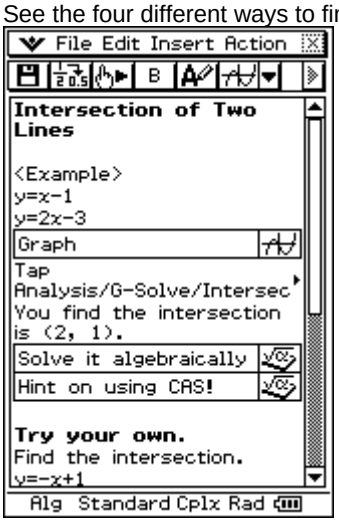
05: Slope-Intercept Form

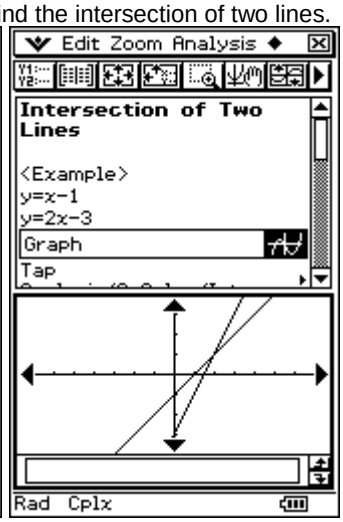
Write the equation in slope-intercept form by examining the graph.

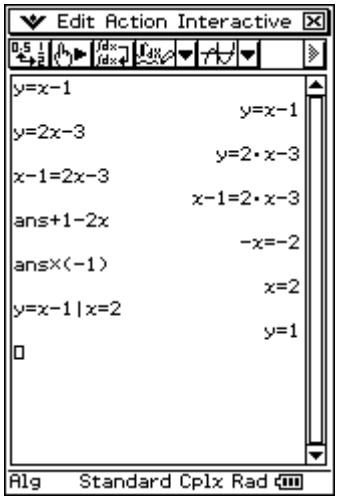


06: Intersection of Two Lines

See the four different ways to find the intersection of two lines.

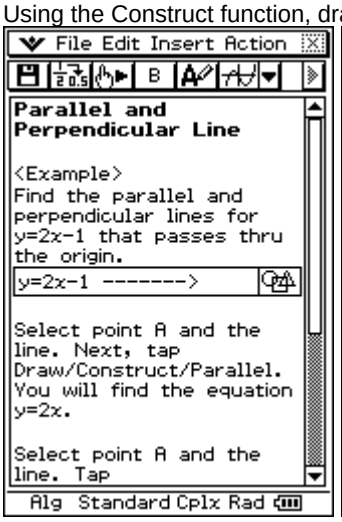


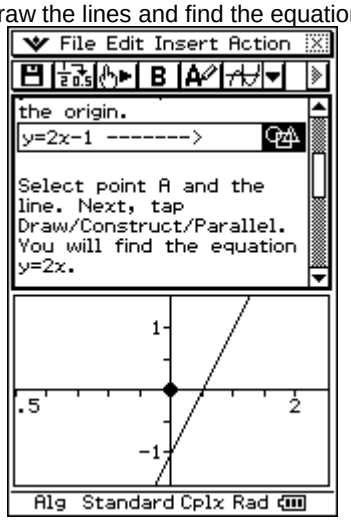




07: Parallel and Perpendicular Line

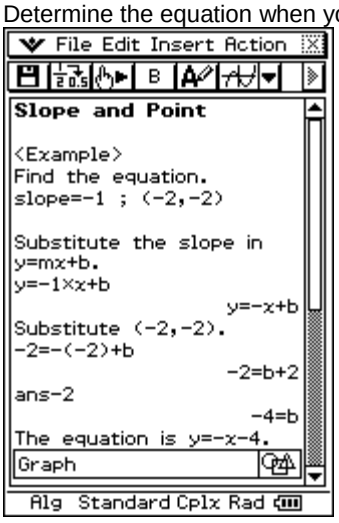
Using the Construct function, draw the lines and find the equations.

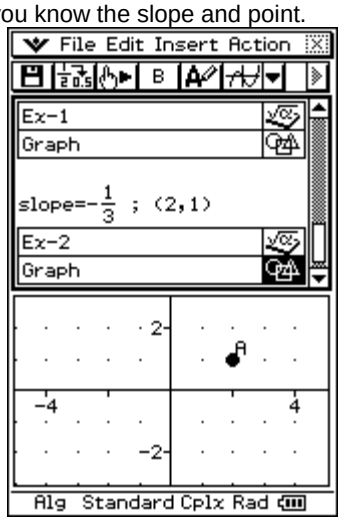




08: Slope and Point

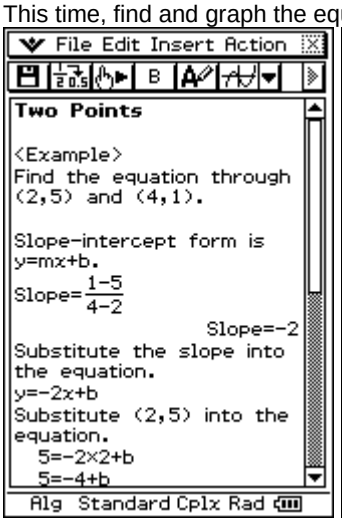
Determine the equation when you know the slope and point.

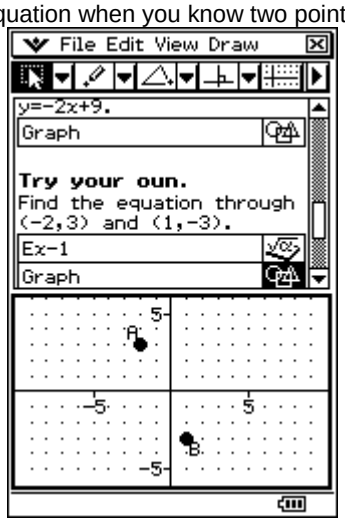




09: Two Points

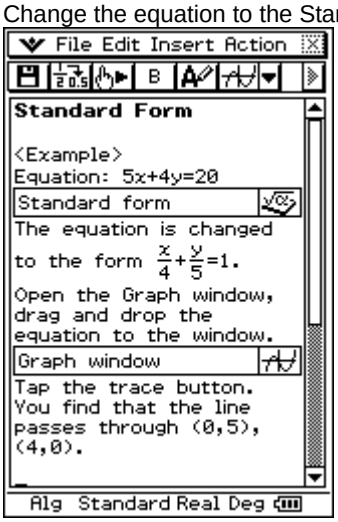
This time, find and graph the equation when you know two points on the line.

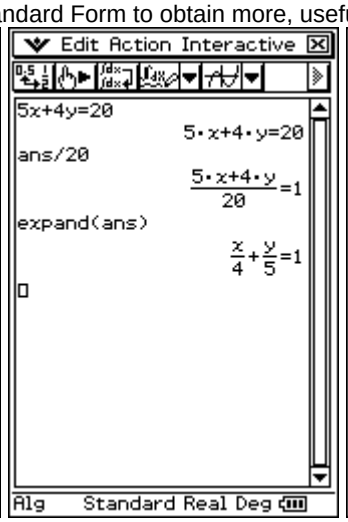


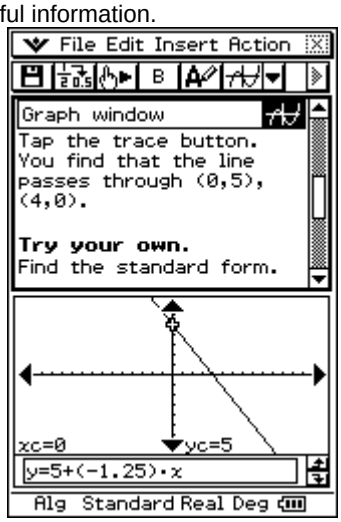


10: Standard Form

Change the equation to the Standard Form to obtain more, useful information.







11: Solve Equation with Absolute Value

Find the equation, both algebraically and with the Solve function.