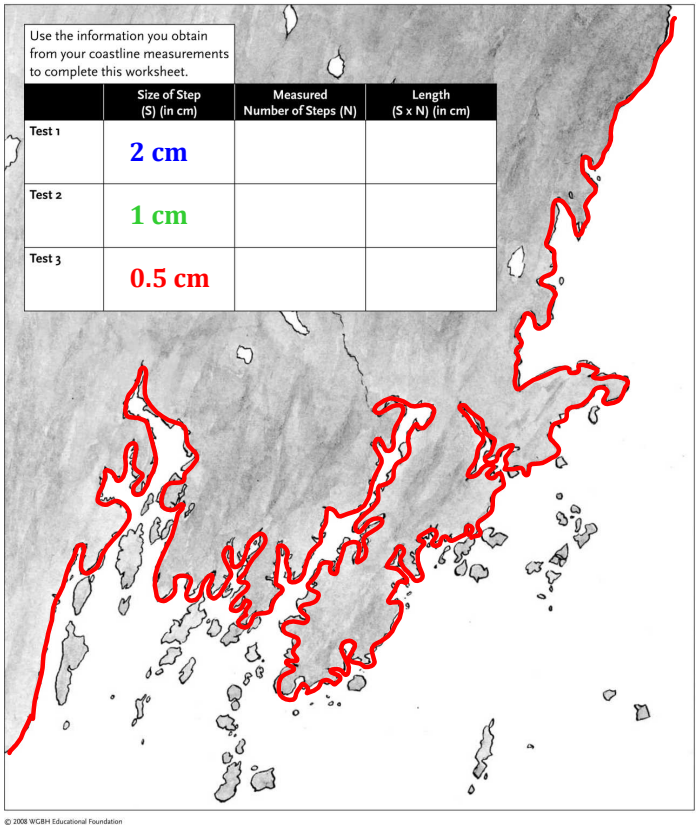
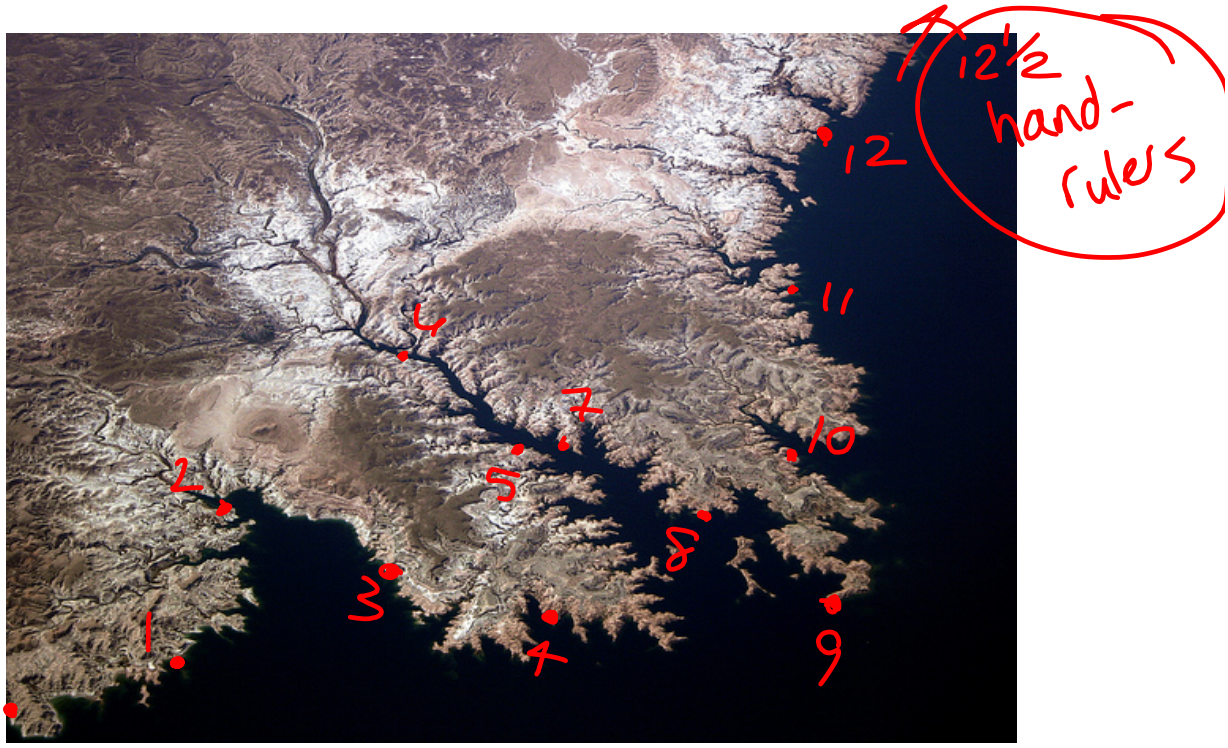
Coastline Measurements



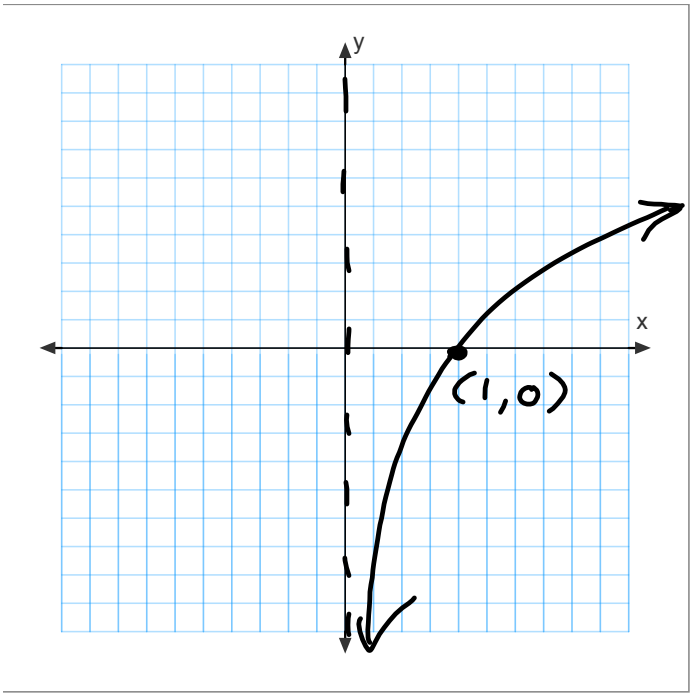
It is recommended that you use three different colors to mark your three different sets of points; otherwise you will probably get confused which points go with which step size!

DUE MONDAY.

http://www.pbs.org/wgbh/nova/education/activities/3514_fractals.html



Chris Moran. *Part of the coastline at Lake Mead*. flikr: http://www.flickr.com/photos/buggs_moran/4516938146/in/photostream/. Accessed 24 January 2014.



y=log x

As x increases, y increases. Even though as x becomes larger we see a smaller increase in y, this function grows without bound; i.e. as x tends to infinity, y also tends to infinity.

Consider the sequence of fractions
1/2 , 1/4 , 1/8 , 1/16 , 1/32 , 1/64 , ... 1/1024 , ...

If the denominator of a fraction grows without bound, but the denominator stays constant, what happens to the whole fraction?

Recall horizontal asymptotes from Precalculus: determining the "end behavior" of function is the same as asking what the function "tends to" as x goes to infinity.