

Math 403

Lesson 12—Online resources for Teachers, Graph Link, TI Connect, TI Website Downloads, Screen Shots

TAMU Math Department Online Resources

Streaming Videos:

<http://www.math.tamu.edu/~snite/M141CalcVideos.html>

<http://www.math.tamu.edu/~snite/videos.html>

Precalculus Materials:

http://distance-ed.math.tamu.edu/Precalculus_home/index.htm

Calculus Exams:

<http://calclab.math.tamu.edu/docs/math151/common-exams/>

<http://calclab.math.tamu.edu/docs/math152/common-exams/>

http://calclab.math.tamu.edu/docs/math142/past_exams.html

<http://calclab.math.tamu.edu/docs/math131/>

Algebra Diagnostic:

http://www.math.tamu.edu/teaching/alg_diag/index.html

Other Online Resources

United States Department of Education website:

<http://www.ed.gov/index.jhtml>

The Texas Education Agency (TEA) website contains up-to-date information on education in Texas:

<http://www.tea.state.tx.us/>

UT Dana Center resources for teachers:

<http://www.utdanacenter.org/>

Texas A&M University Math TEKS Connections (MTC) materials:

<http://mtc.tamu.edu/home.htm?intro-pre.htm>

Conference for the Advancement of Mathematics Teaching (CAMT) information:

<http://www.camtonline.org>

National Council of Teachers of Mathematics (NCTM):

<http://www.nctm.org/>

Free Online Graphers

Winplot is a free graphing software that runs under the Windows operating system:

<http://math.exeter.edu/rparris/winplot.html>

Instructions for using Winplot:

<http://www.math.hawaii.edu/lab/241/winplot.html>

Another free online grapher can be found here:

<http://www.math.hawaii.edu/lab/241/online-grapher.shtml>

A very easy-to-use grapher for plotting points is found at

http://www.shodor.org/interactivate/activities/SimplePlot/?version=1.5.0_10&browser=MSIE&vendor=Sun_Microsystems_Inc.

Simply type in the points in the Data section, i.e., (2,3), etc. Then click on “Update Graph”. If you just want the points, choose “scatter”. If you want the line between the points, choose “connected.” If you leave “Auto Scale” checked, you won’t have to change the xmin, xmax, etc. to see a good graph.

The same website has a great grapher for linear equations at

<http://www.shodor.org/interactivate/activities/GraphSketcher/>

Simply type in the equation and click “Graph.” You must use a * sign to multiply a number and x. For example, if you want to graph $y = 4x + 3$, you will type the following in the box at the bottom:

4*x+3

Here is another site, but it is more complicated:

<http://www.uncwil.edu/courses/mat111hb/functions/coordinates/coordinates.html>

TI Website

<http://www.education.ti.com>

You can download the fonts for your TI calculator. Choose download—key fonts. You can also download TI Connect, some free APPS for your calculator, and the latest operating system.

TI Connect

TI Connect is free downloadable software that allows you to connect your calculator to your computer for data transfer.

Graph Link

The graph link is a cable that connects the calculator to the computer. The TI-84 can also use a USB cable.

What version is your calculator’s OS (operating system)? What is the newest version available? (find it on the TI website.) Download the newest version if you wish.

Linking Calculators

Calculator Receiving Data:

$\boxed{2\text{nd}}\boxed{X,T,\theta,n}$ Receive $\boxed{\text{ENTER}}$

(Do not press $\boxed{\text{ENTER}}$ until the calculators are linked)

Calculator Sending Data:

1) $\boxed{2\text{nd}}\boxed{X,T,\theta,n}$ Send—Prgm—Select

2) Scroll down to program and press $\boxed{\text{ENTER}}$ to select it.

3) \blacktriangleright --Transmit-- $\boxed{\text{ENTER}}$

Transfer the Program DAYDATA.

Graph the scatter plot.

Screen Shots

Launch the TI Connect software and link your calculator to the computer via the graph link. Use “TI Device Explorer” for the software to detect your calculator. Then use “TI Screen Capture” to capture the screen. Use copy and paste to put the screen shot in a Word document.