

GEOMETRY LESSON PLAN

Lesson: Graphing on a coordinate plane, slopes, and intercepts

Learning Outcomes: 17,22,24

Objective: To be able to graph linear, quadratic, and absolute value graphs on a graphing calculator and to demonstrate these graphs using the students body as a coordinate axis.

1. Show students how to use a calculator to graph linear, quadratic, and absolute value equations.
2. Show students how to graph linear, quadratic, and absolute value equations using their body as a coordinate axis.
3. Do the GRAPHARENA using the following equations

1 st	2 nd	3 rd
y=x	y=-x	repeat 1
y=x + 1	y=-x+1	
y=x to the 2 nd power	y=-x to the 2 nd power	
y= one half x squared	y=-one half x squared	
y=3xsquared	y=-3x squared	
y=(x-1) squared	y=-(x-1) squared	
y= absolutevalueof x	y= - absolute value of x	
y= absolute value of (x+2)	y= - absolute value of (x+2)	

Final: $y = x^2 - 1$

4. Assign workbook 2.3 problems 1-51 for homework

Sources: <http://www.connectedteacher.com/library/bestof web.asp>

<http://encarta.msn.com/schoolhouse>

<http://www.academicsolutions.com/workshop/GraphingCalculators,htm!>