Graphing Family of Functions

Linear Function

"Mother Function"

y = x

x | **y** - 2 Name:

Name:

Move onto filling out the graphing family of functions handout for a parabola.

Do everything you did for the line adding the following specifically for a parabola:

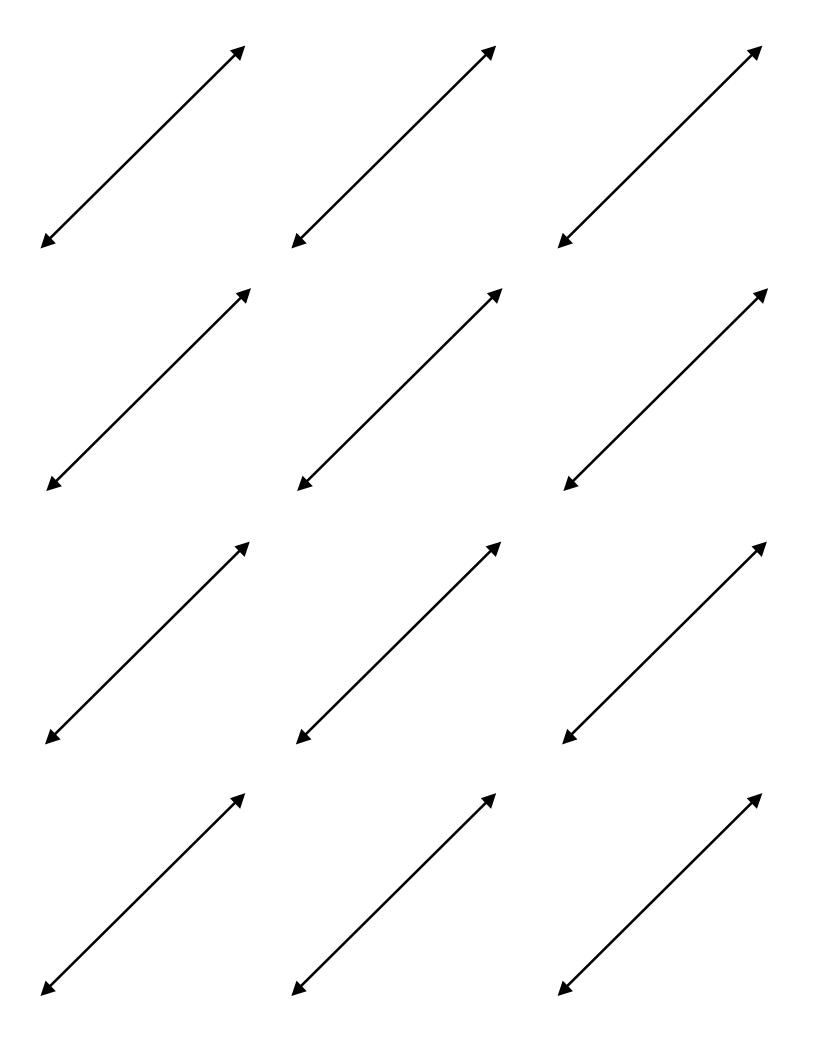
- Discuss the relationship between x and y that y is the x value times itself or squared. This will explain the positive answers. Then explain the negative values for the father because the negative sign.
- Show how the y values in the table match up because of the squared in the equation. Also, show how the values match up in the graph making it symmetric or a reflection over the y-axis. You can use the overhead of the parabola to show the reflection.

Move onto filling out the graphing family of functions handout for a cubic.

Do everything you did for the line adding the following specifically for a cubic:

- Discuss the relationship between x and y that y is the x value times itself 3 times or cubed.
- Show how the y values in the table do not match up like before because of the cubed in the equation. Also, show the differences of the graph of a cubic to a parabola. You can use the overhead of the parabola and cubic to help.

The 4th page of graphs can be used to show students a change in slope for linear functions or horizontal shifts for quadratics and cubic's.

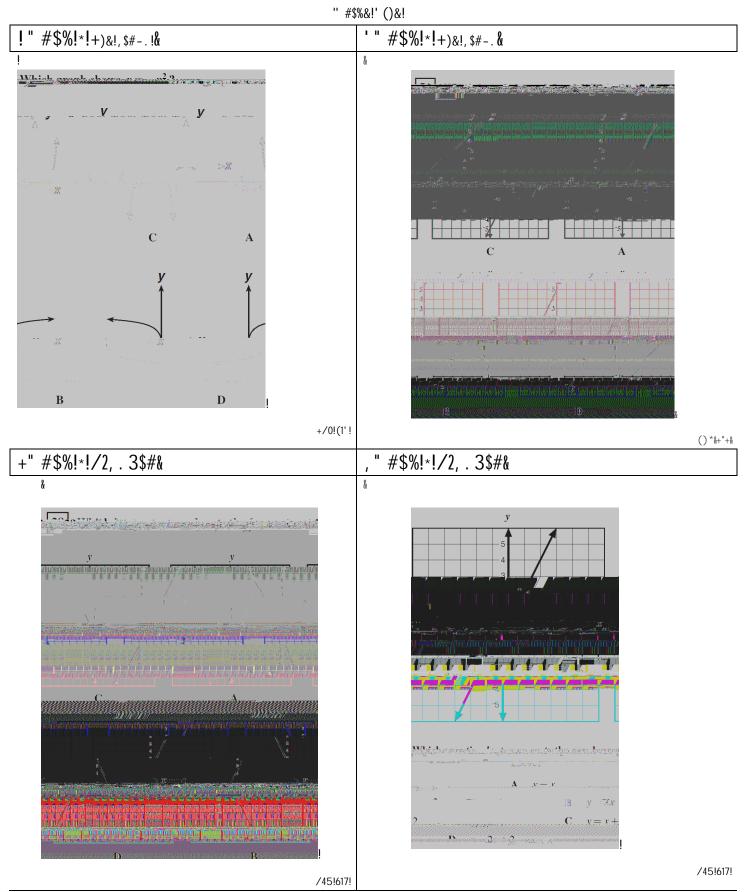


ļ

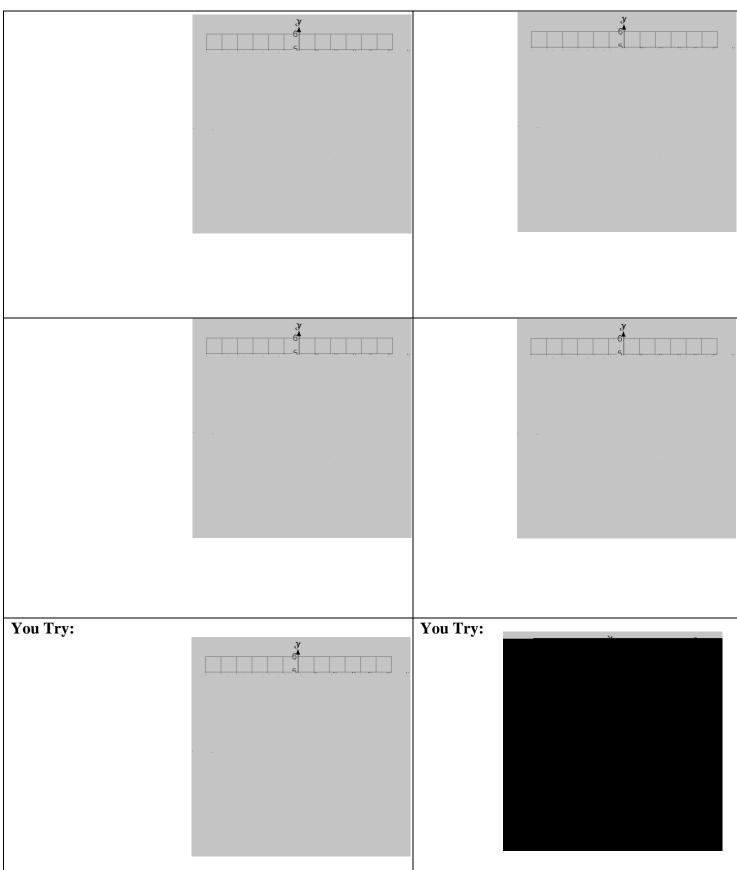
- !
- ļ
- !
- ļ
- !
- ļ
- !
- ļ
- ļ
- İ
- !
- ļ
- !
- !
- !
- !
- !
- !
- !
- ļ
- !
- !
- !
- . !

İ

Warm - Up

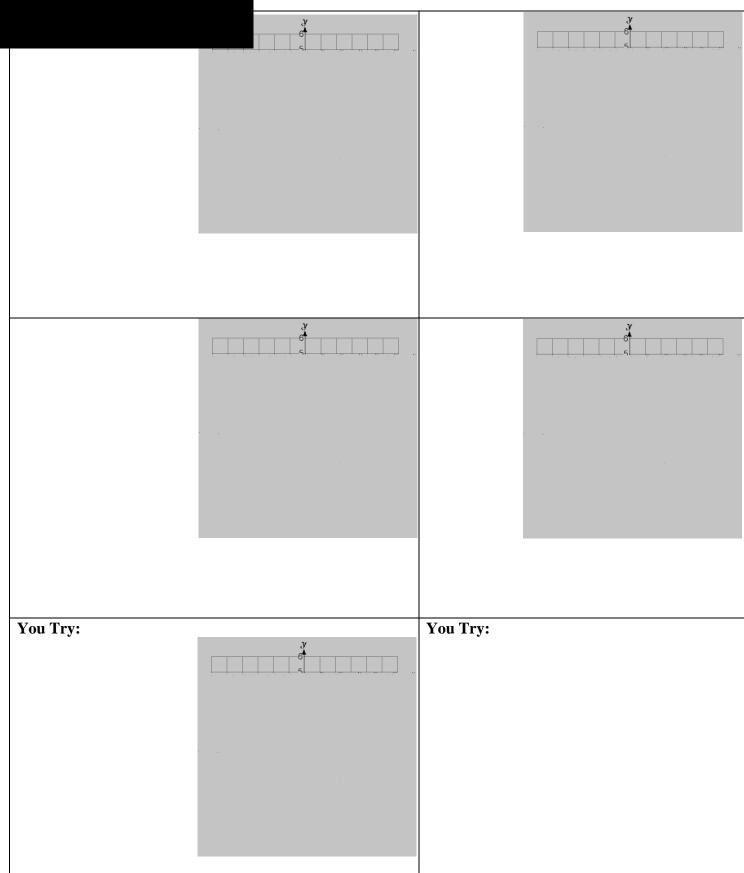


Graphing Family of Functions



Date:

Graphing Family of Functions



Graphing Family of Functions

