**Senior Math Name:**

*A New Type of Transformation- Investigation*

1. Sketch a graph of y = at right. Actual
2. Using desmos.com, graph . Sketch the graph at right. Actual

How does the graph compare to the graph of the parent function?

(Reminder: is the same as –y = which is the same as y = - .

1. Using desmos.com, graph y . Sketch the graph at right. Actual  
   How does the graph compare to the graph of the parent function?

(Reminder: y is the same as y . )

1. Make a prediction. What will the graph look like? Prediction Actual

Using desmos.com, graph . Sketch the graph at right.

How does the graph compare to the graph of the parent function?

1. Predict what the graph of will look like. Prediction Actual

Using desmos.com, graph . Sketch the graph at right.   
How does the graph compare to the graph of the parent function?

(Reminder: is the same as . )

1. Predict what the graph of will look like. Prediction Actual

Using desmos.com, graph . Sketch the graph at right.   
How does the graph compare to the graph of the parent function?

Why does this happen???

(Reminder: is the same as . )

1. Using desmos.com, graph . Sketch the graph at right. Actual

How does the graph compare to the graph of the parent function?

Using desmos.com, graph . Sketch the graph at right. Actual

How does the graph compare to the graph of the parent function?

1. Predict what would the graph of would look like. Prediction Actual

Check your prediction using desmos.com.

How does the graph compare to the graph of the parent function?

1. Predict what would the graph of would look like. Prediction Actual

Check your prediction using desmos.com.

How does the graph compare to the graph of the parent function?

1. Predict what would the graph of would look like. Prediction Actual

Check your prediction using desmos.com.

How does the graph compare to the graph of the parent function?

**Summarize your results! (THIS IS THE MOST IMPORTANT PART!)**

How will the graph of compare to the graph of y = f(x)??? (Note: is the same as .)

How will the graph of compare to the graph of y = f(x)??? (Note: is the same as .)