MA 109: October 4

Transformations: Summary and Review

Start of Class

Instructor Information

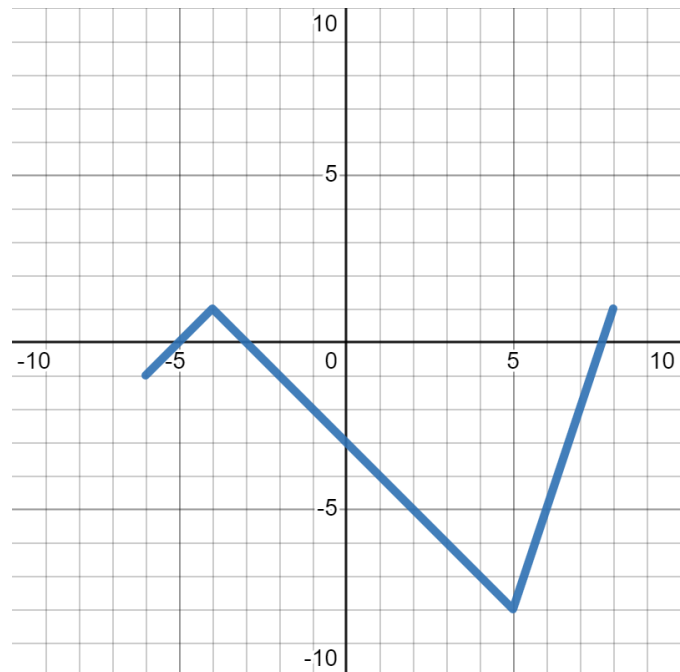**Name:**

Email:

Office Hours:

Warm-up Questions

Notes

	Vertical Transformation	Horizontal Transformation
Shift	Shift up	Shift left
	Shift down	Shift right
Scale	Vertical stretch	Horizontal stretch
	Vertical compression	Horizontal compression
Reflection	Vertical reflection	Horizontal reflection

Example: Suppose $f(x)$ is given in the graph to the right. Draw the graph of $f(2x)+3$.

Example: Suppose the domain of $f(x)$ is $(-5,1)$ and its range is $(-2,7]$. What are the domain and range of $4f(-x)$?

End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?