

FORMATTING: Write on only one side of each page. I will not award (or deduct) points for anything written on the backs of pages. Paper without lines (copier paper). Staple top left corner. Leave margins. If you write a header at the top of each page, you should have enough of a margin. MAIN THING IS DON'T PUT A DURN STAPLE THROUGH SOMETHING I HAVE TO READ!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Project #1: GRAPHING BY TRANSFORMING BASIC FUNCTIONS (Bring with you to Test 2, to turn in.)

Your textbook doesn't cover horizontal stretches/shrinks. But you'll be *required* to perform them, if you take trigonometry. So I'm giving you the whole ball of wax, as efficiently as I am capable.

First of all, you need to watch the video, and understand how to graph a number of basic functions, and what I'm looking for, in each. The videos live here:

<http://www.harryzaims.com/121-online/121-online-fall-15/writing-projects/Writing-Project-1/>

There will be 3 more to come.

What I want for Writing Project 1 is for you to *use the techniques covered in the theory and examples* to graph the following functions:

1. $g(x) = -2(x + 7) + 3$

2. $h(x) = \frac{-5}{x-7} + 3$

3. $k(x) = -3\sqrt{2x-6} + 5$

4. $w(x) = -3\sqrt{-2x-6} + 5$

5. $z(x) = 4\sqrt[11]{x+5}$

Project #2 will be along, shortly. It involves doing similar things with quadratic functions, as a separate topic, because of how much we all love completing the square.