Intro to Analysis **Name** _____
Trig Graphing Overview

For the following questions, graph the group of functions in the provided window. We will be looking at the general function **y = A sin(B(X-C))+D** (*Why aren't we looking at the cosine function as well?*) Make sure your calculator is in the **Radians** mode.

1. Use a domain of [-π, 2π] and a range of [-5, 5]

Y1= sin (X) ***(make darker)*** **How does the "A" value change the graph?**
Y2= 2 sin (X)
Y3= 5 sin (X)
Y4= 0. 5 sin (X)

Changes:

Stays the Same:

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2. Domain: [-π, 2π] Range: [-1.5, 1.5]

Y1= sin (X) ***(make darker)*** **How does the "B" value change the graph?**
Y2= sin (2X)
Y3= sin (3X)
Y4= sin (0.4X)

Changes:

Stays the Same:

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3. Domain: [-π, 2π] Range: [-1.5, 1.5]

Y1= sin (X) ***(make darker)*** **How does the "C" value change the graph?**
Y2= sin (X + π/4)
Y3= sin (X - π/6)
Y4= sin (X - 2π)

Changes:

Stays the Same:

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4. Domain: [-π, 2π] Range: [-3, 3]

Y1= sin (X) ***(make darker)*** **How does the "D" value change the graph?**
Y2= sin (X) + 1
Y3= sin (X) - 0.75
Y4= sin (X) + 3

Changes:

Stays the Same: