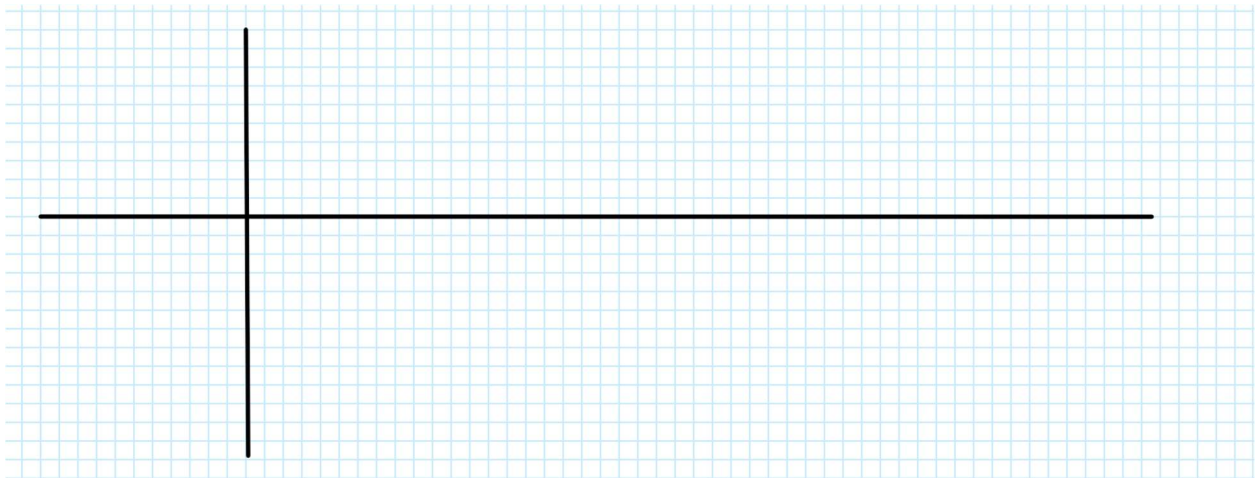


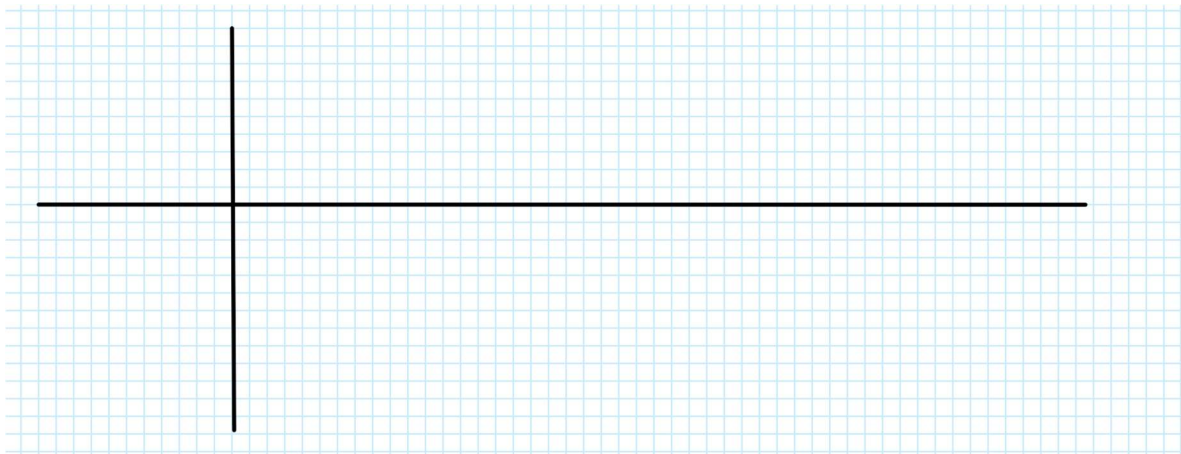
## 11U5 W24 – Sketching Sinusoidal Functions (practice, but I will be watching you work)

Sketch two cycles of each of the following functions. State: amplitude, period, phase shift and the central axis. Also state the *range* of each function. You may use whichever technique you like best (“transforming” a table of values or using the “division into quadrants” pattern).

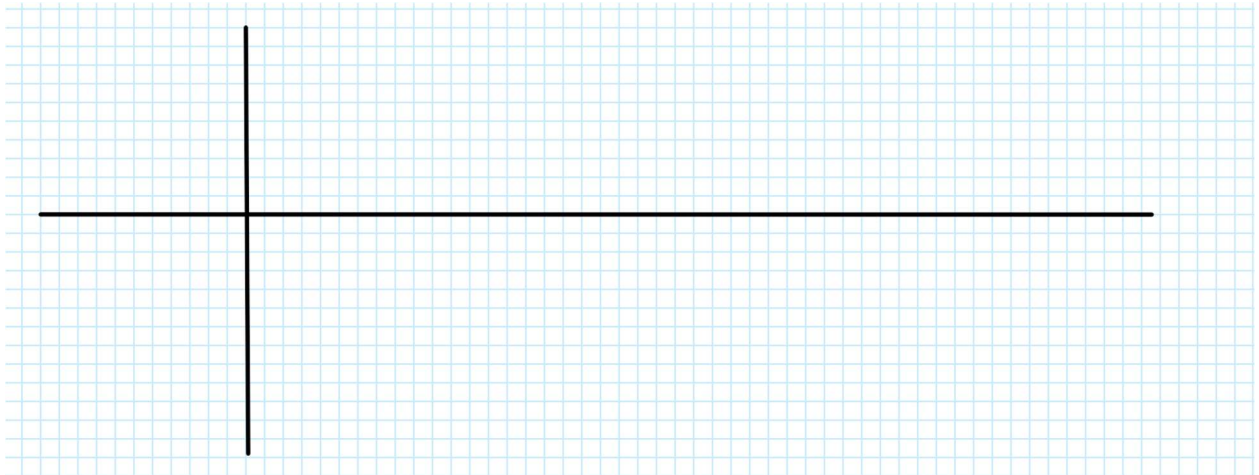
1. Sketch two cycles of  $g(\theta) = 2\cos(\theta) - 4$



2. Sketch  $f(x) = 2 \sin(x - 30^\circ) + 1$



3. Sketch two cycles of  $g(\theta) = 3 \cos(2\theta) - 2$



4. Sketch two cycles of  $h(x) = -2.5 \sin(3x + 180^\circ) + 3$

