Assignment 6 – Review: Graphing All Types Trigonometric Functions **Name**_____

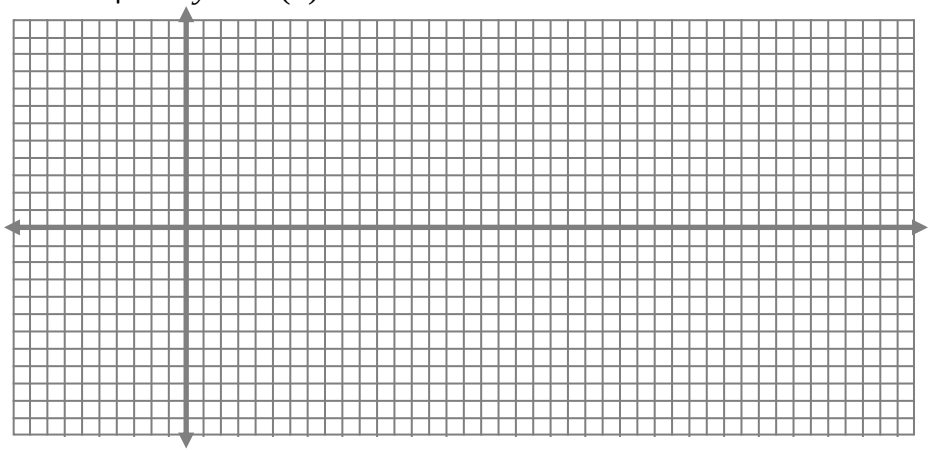
For the following functions, find a) the vertical shift, b) the phase shift, c) the period, d) the vertical stretch.

1. $y = 2\sec 2\left(x - \frac{\pi}{3}\right) - 7$ a) _____ b) _____ c) _____ d) _____

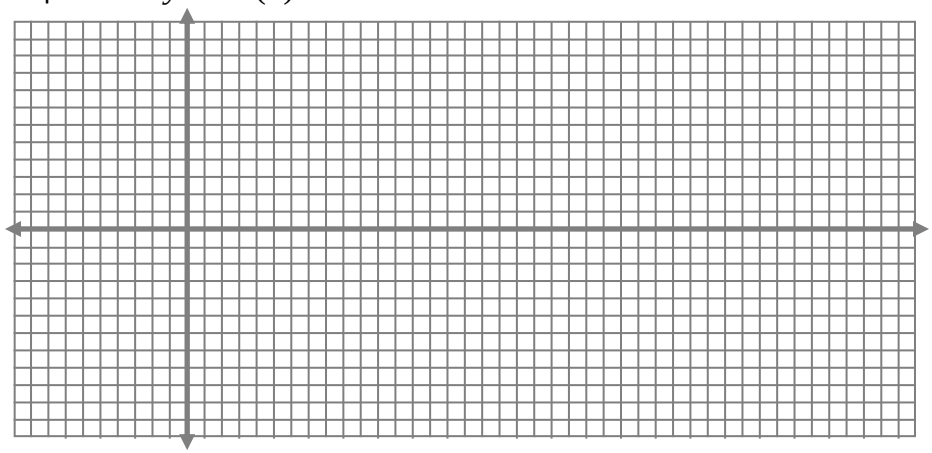
2. $y = -5\cot 4\left(x + \frac{5\pi}{3}\right) + 2$ a) _____ b) _____ c) _____ d) _____

For each graph, sketch an accurate and complete graph over the domain $0 \le x \le 2\pi$ **.**

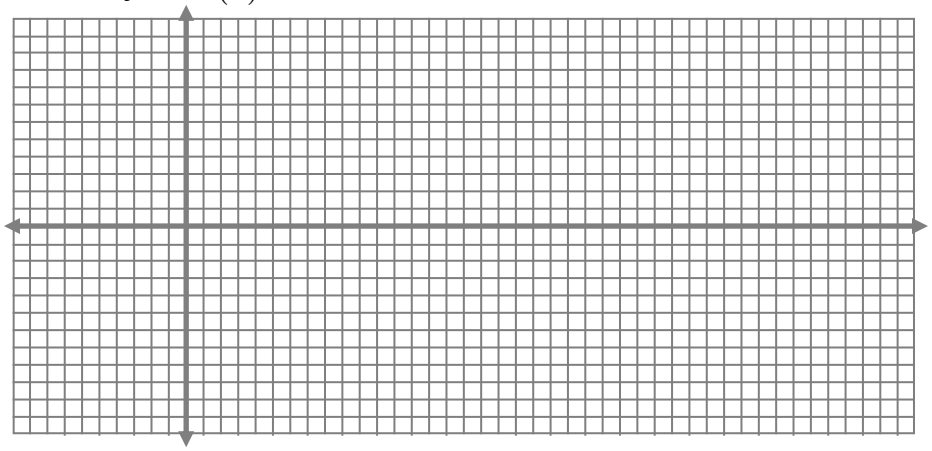
3. Graph: $y = \sin(x)$



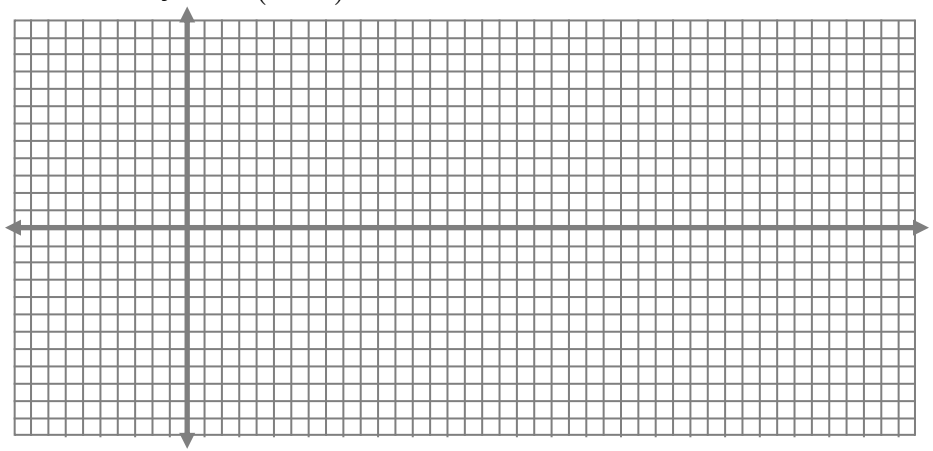
4. Graph: $y = \cos(x)$



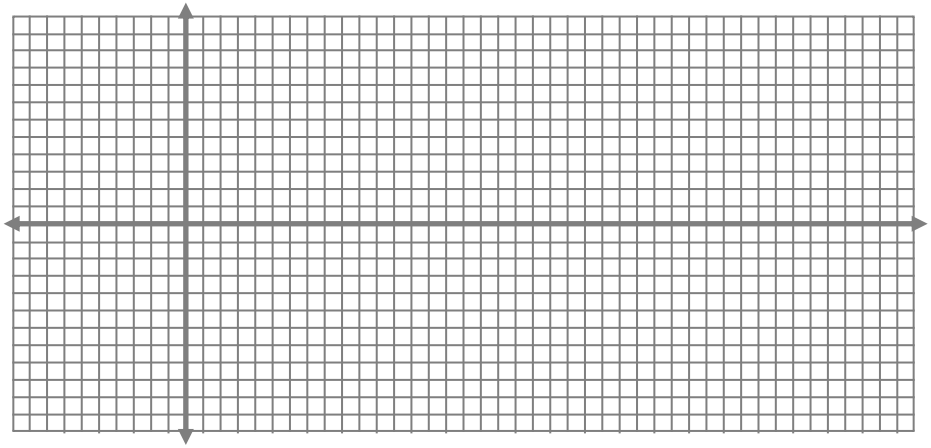
5. Graph: $y = \cot(x)$



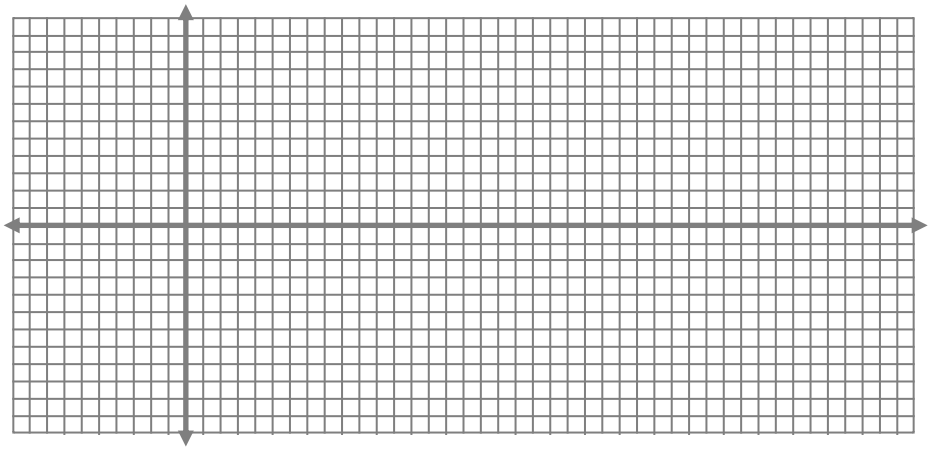
6. Graph: $y = \csc(x - \pi)$



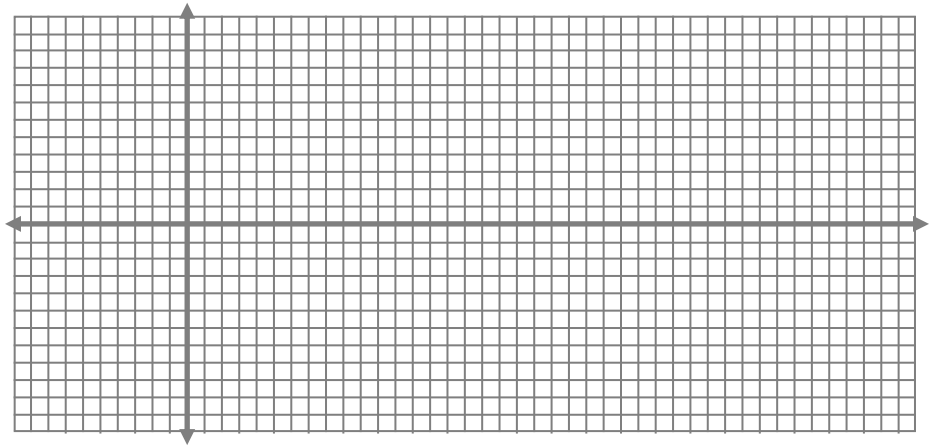
7. Graph: $y = -2\tan\left(x - \frac{\pi}{2}\right)$



8. Graph: $y = 3\sin\frac{1}{2}(x)$



9. Graph $y = 3\cos 2(x - \pi) + 1$



10. Graph: $y = \sec 2\left(x - \frac{\pi}{3}\right)$