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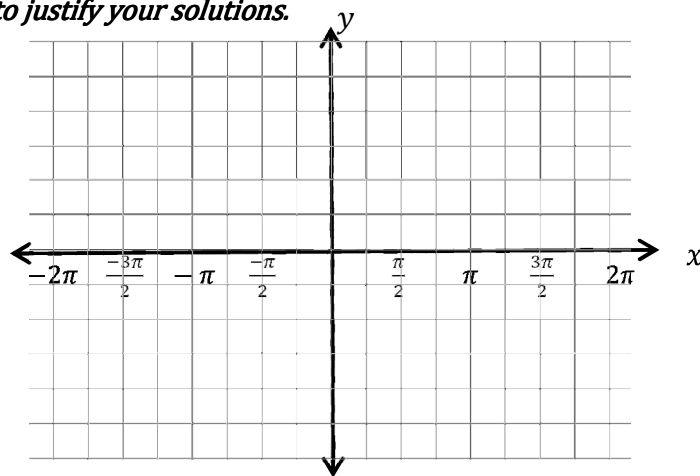
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Assignment 8A.1: Graphing Sinusoids-Sine

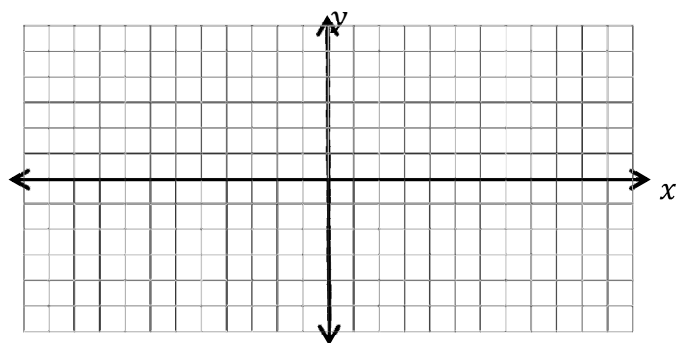
Answer the following questions and show your work to justify your solutions.

1. Graph $f(x) = 2 \sin(x)$ from -2π to 2π

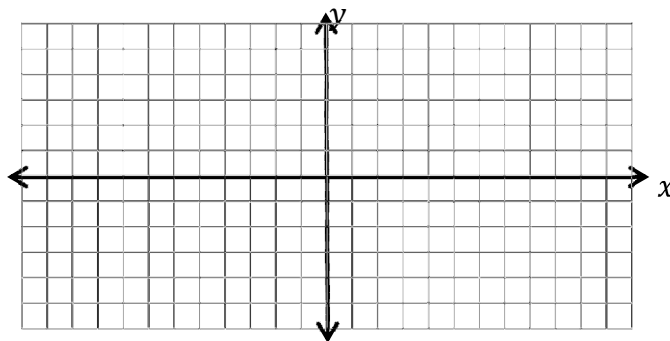


For each of the following functions, find the amplitude and period, then graph at least 2 periods of each (adjust your scale accordingly and label your axes)

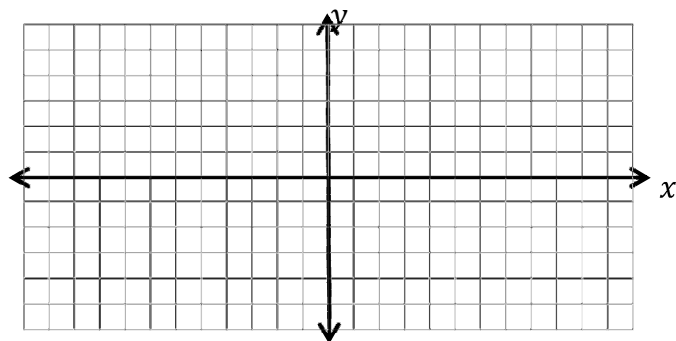
2. $g(x) = -\sin(x) + 1$



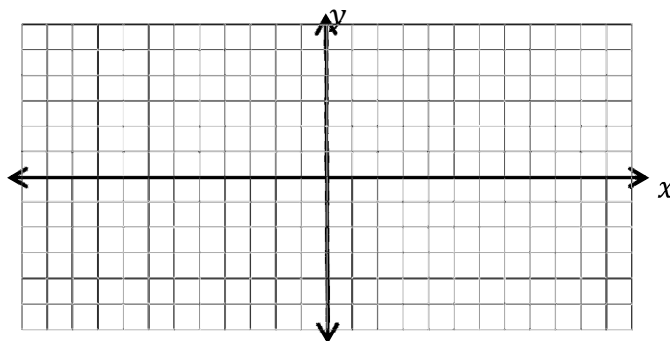
3. $h(x) = 2 \sin\left(x + \frac{\pi}{4}\right)$



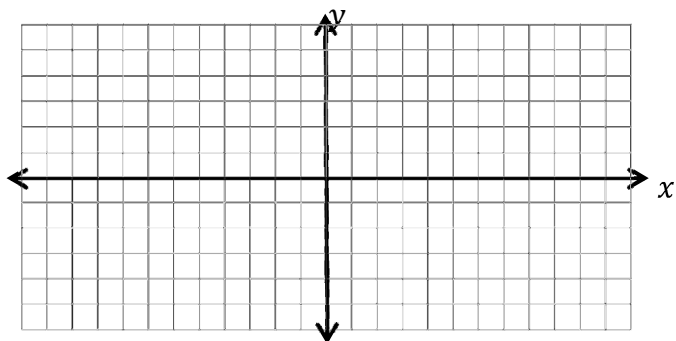
4. $f(x) = \sin(x - \pi) - 1$



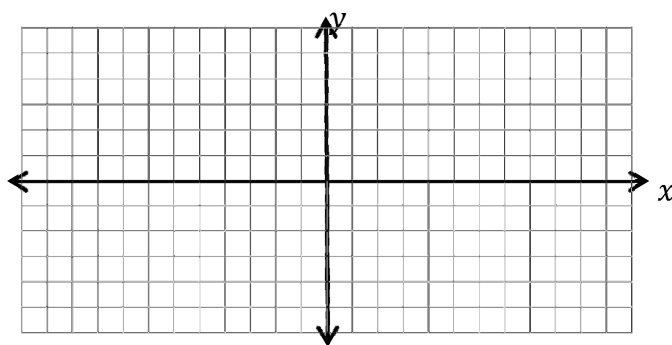
5. $f(x) = \sin(x + 2\pi) + 2$



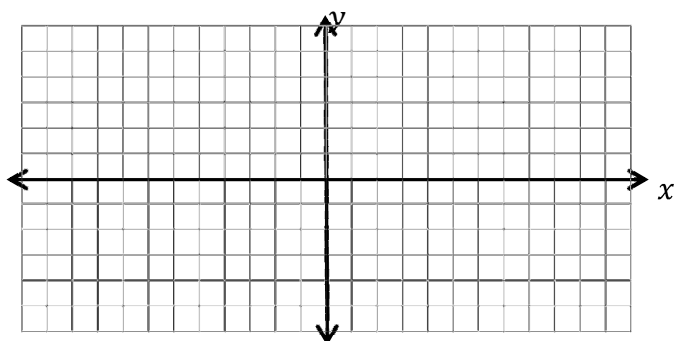
6. $k(x) = \sin(2x)$



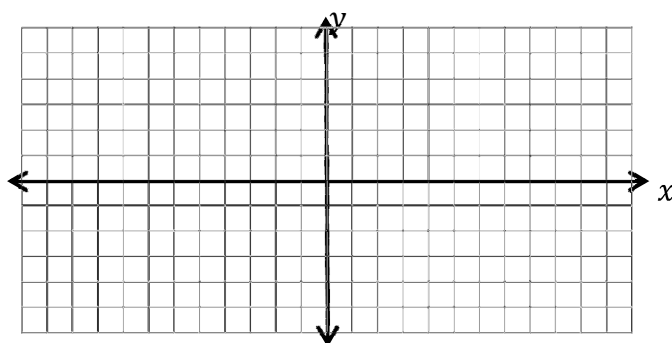
7. $m(x) = \sin\left(\frac{1}{2}x\right)$



8. $f(x) = 3\sin(2(x+1))$



9. $g(x) = -\frac{1}{2}\sin(\pi x) + 1$



10. The curve below is the graph of a sinusoidal function. It goes through the points $(-8,0)$ and $(2,0)$. Find a sinusoidal function that matches the given graph.

