

Aim: More Practice Graphing Sine and Cosine Curves

I. Do Now:

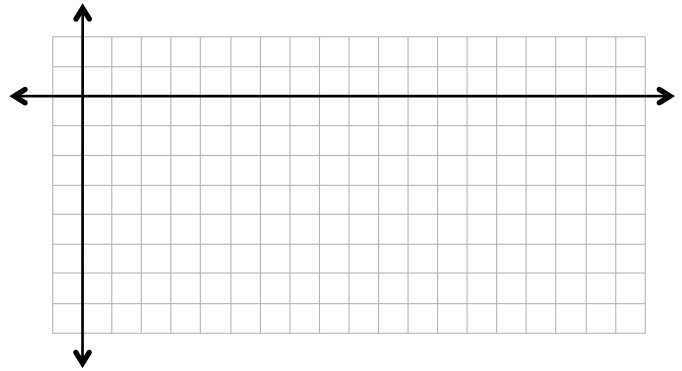
1. Find the exact value of $\sec \frac{11\pi}{3} + \sin\left(-\frac{11\pi}{6}\right)$

2. State the amplitude, period, frequency, and vertical shift for each graph:

(a) $y = 4\sin(3x) + 7$

(b) $y = -\cos\left(\frac{\pi}{4}x\right) + 12$

3. Determine an appropriate scale for the x - and y -axes and then sketch the graph of $y = -2\cos(4x) - 5$ on the interval $[0, \pi]$.



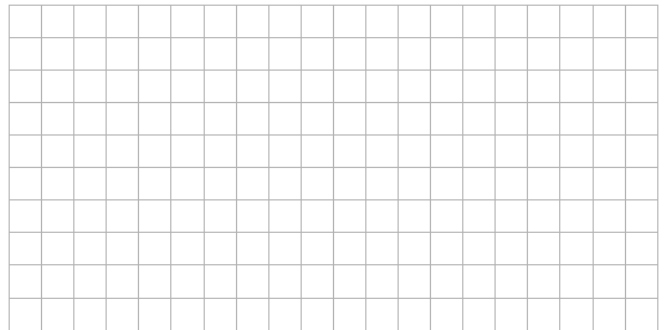
II. More Practice Graphing Sine and Cosine Curves

Determine an appropriate scale and then sketch the graph of each equation on the given interval.

4. $y = 4\sin \pi x \quad [-2, 2]$



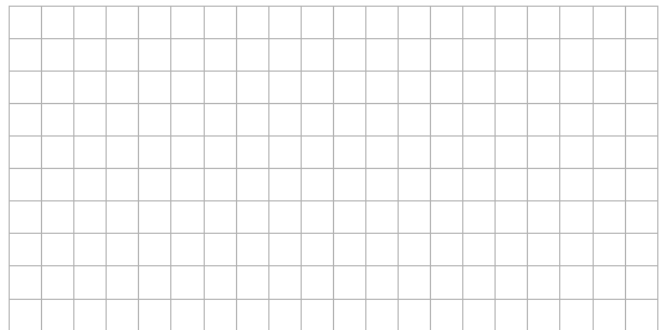
5. $y = -\cos \frac{1}{2}x + 3 \quad [-4\pi, 4\pi]$



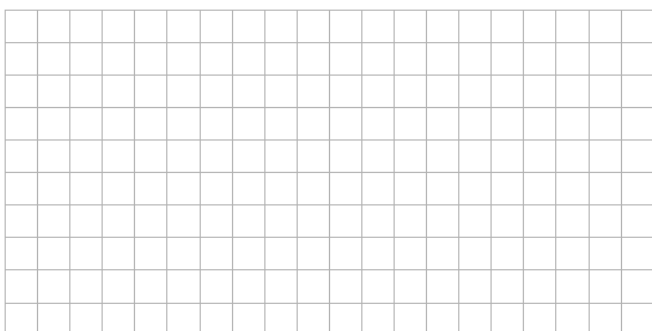
6. $y = 3\sin\left(\frac{2\pi}{3}x\right) + 1 \quad [-3, 6]$



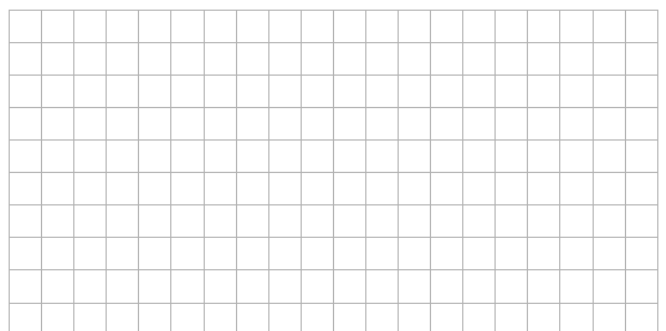
7. $y = 2 + 3\cos 6x \quad [0, \pi]$



8. $y = -3\cos\left(\frac{1}{5}x\right) - 1 \quad [0, 20\pi]$



9. $y = 1 - \sin\left(\frac{\pi}{2}x\right) \quad [0, 12]$



10. $y = \sin(4\pi x) - 2$ $[-1, 1]$



11. $y = 3 - 2\cos 8x$ $[0, \pi]$



HW23

- Complete this sheet.
- p. 401: 14, 17, 30, 36, 46, 47