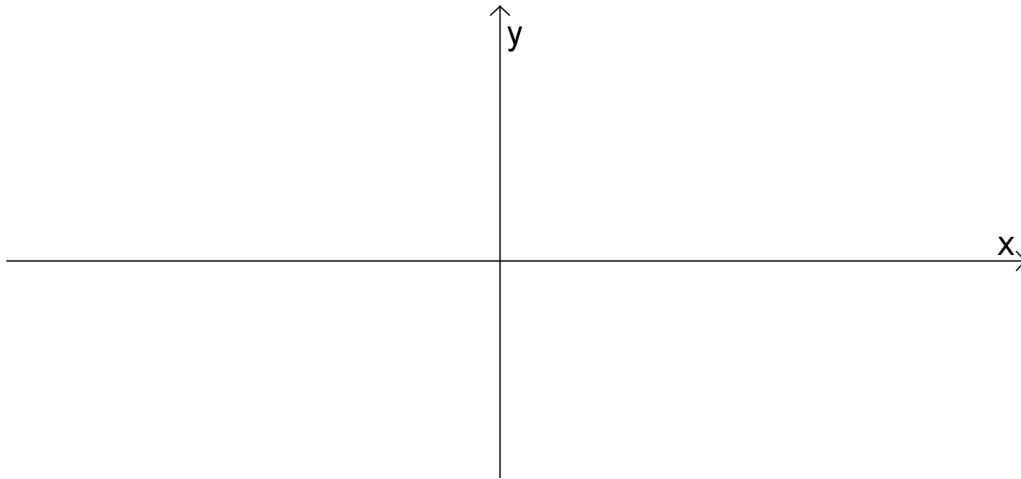
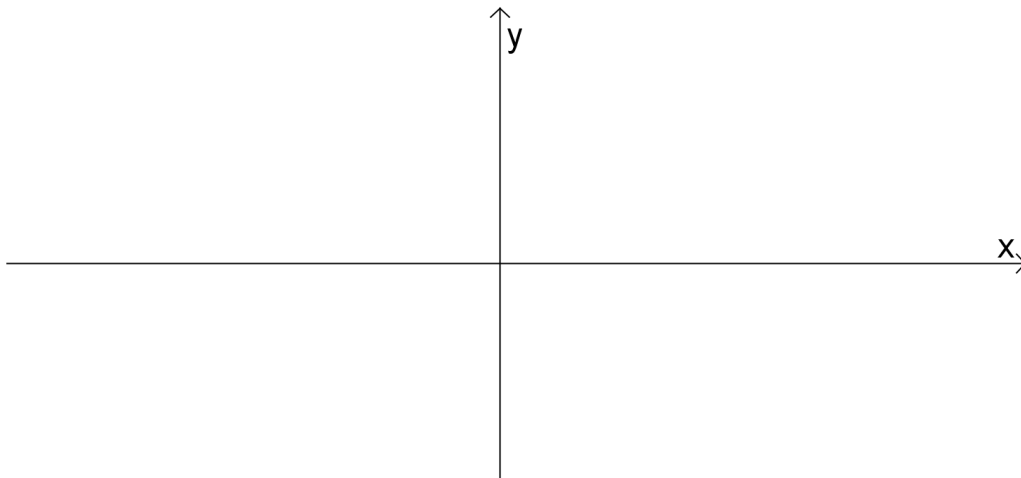


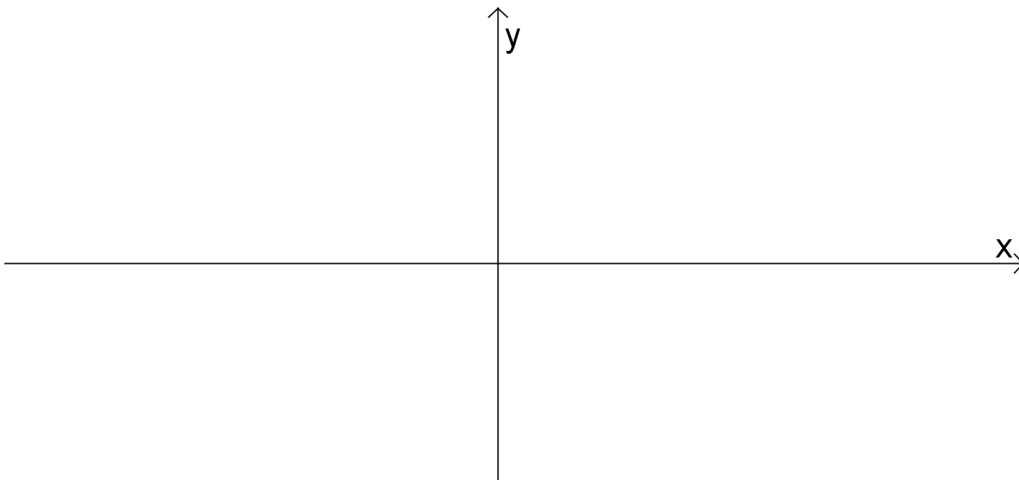
1. Graph $y = 3 \sin \left(x - \frac{\pi}{2} \right)$ and find the amplitude, period, and phase shift.



2. Graph $y = -\frac{1}{2} \cos \left(\frac{1}{2}x + \pi \right)$ and find the amplitude, period, and phase shift.



3. Graph $y = 1 - 3 \sin \pi \left(x - \frac{1}{3} \right)$ and find the amplitude, period, and phase shift. (Note: if you get this one right, you are a sine-graphing Jedi...)



Q: How can half of 12 be 7?