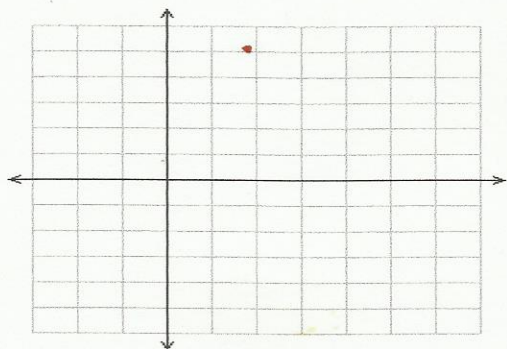


I. Find the missing information and graph the given function. Graph MUST be ACCURATE!!!

1.) Given Function: $y = 3\sin(x - \pi) + 1$

amplitude = _____ period = _____

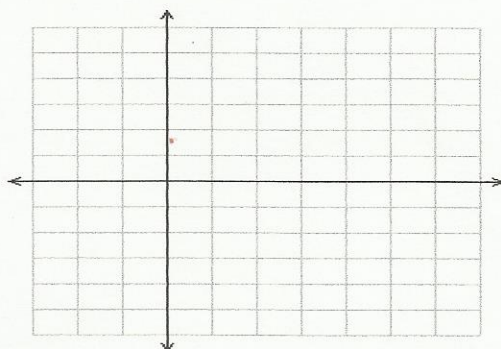
ph. shift = _____ vert. shift = _____



2.) Given Function: $y = 2\cos(4x) - 3$

amplitude = _____ period = _____

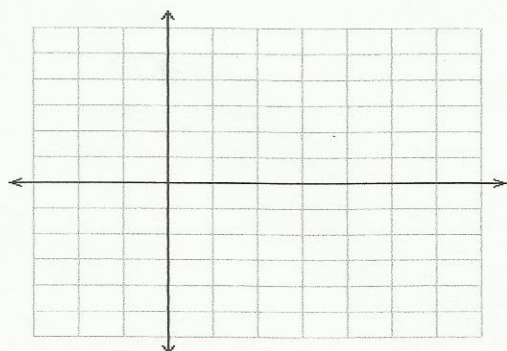
ph. shift = _____ vert. shift = _____



3.) Given Function: $y = \sin\left(\frac{1}{2}x - \pi\right) - 4$

amplitude = _____ period = _____

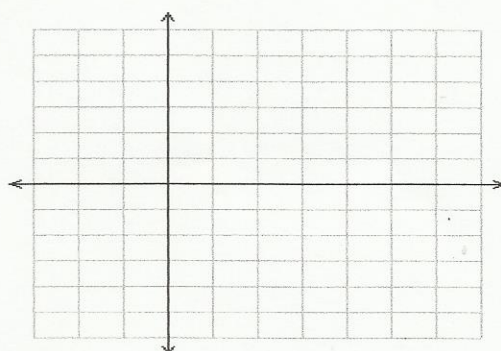
ph. shift = _____ vert. shift = _____



4.) Given Function: $y = \cos\left(x + \frac{\pi}{2}\right) + 4$

amplitude = _____ period = _____

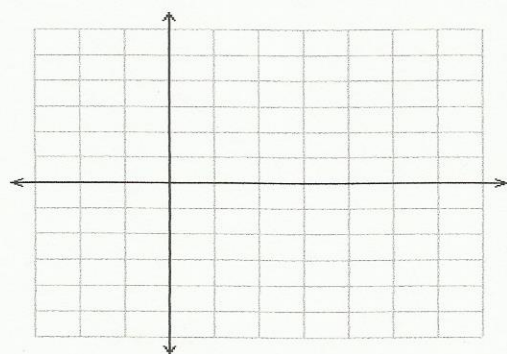
ph. shift = _____ vert. shift = _____



5.) Given Function: $y = 2\sin\left(8x + \frac{\pi}{4}\right) - 2$

amplitude = _____ period = _____

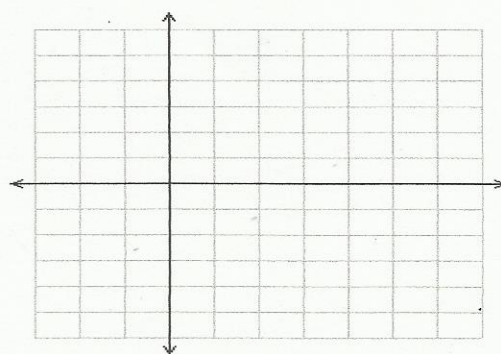
ph. shift = _____ vert. shift = _____



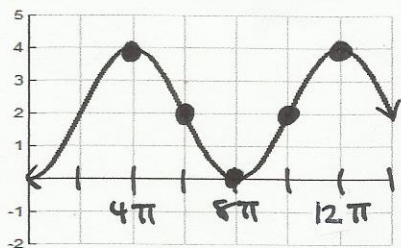
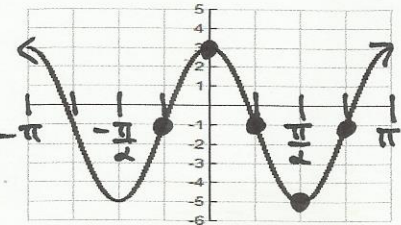
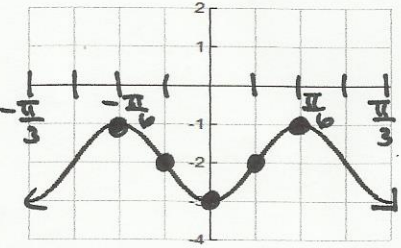
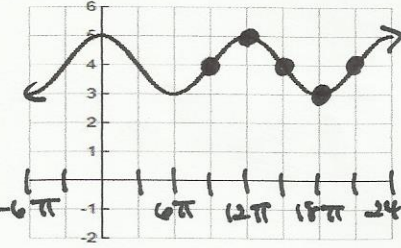
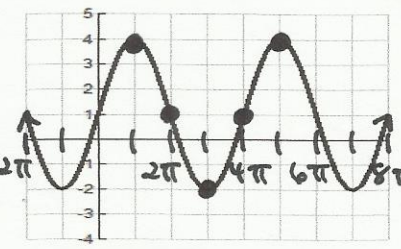
6.) Given Function: $y = 3\cos\left(\frac{1}{3}x - \frac{\pi}{2}\right) + 3$

amplitude = _____ period = _____

ph. shift = _____ vert. shift = _____



II. Find the missing information of each given graph to write the function's equation. Show work!

Given/Missing Information	Work to Find a , b , c , and d	Equation for Function
<p>7.)</p> 		
<p>8.)</p> 		
<p>9.)</p> 		
<p>10.)</p> 		
<p>11.)</p> 		
<p>12.)</p> 