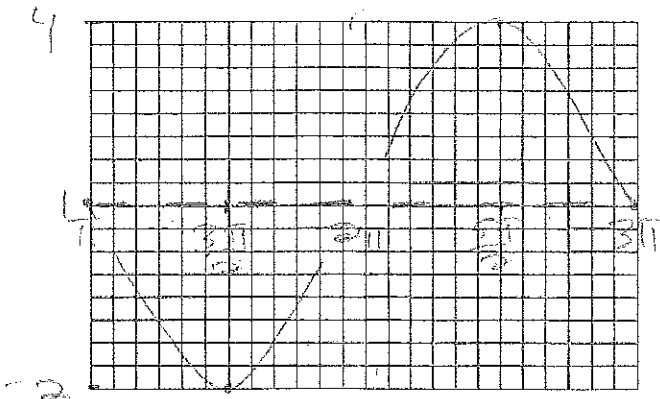


Exam Review Graphing Sine and Cosine  
Algebra 2

Name Key 2013-14  
Hour \_\_\_\_\_ Date \_\_\_\_\_

For Question 1-2, graph each function. After, list the key information.

1.  $y = -3\sin(\theta - \pi) + 1$



midline equation  $y = 1$

Domain  $[\pi, 3\pi]$

Range  $[-2, 4]$

midline int(s)  $(\pi, 1), (2\pi, 1), (3\pi, 1)$

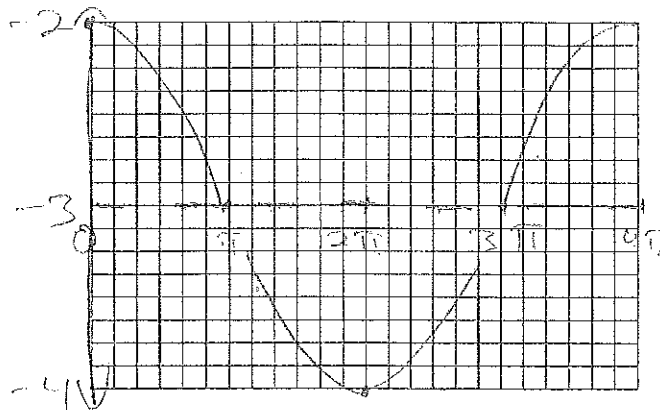
Max's  $(\pi/2, 4)$

Min's  $(3\pi/2, -2)$

Period  $2\pi$

Phase Shift Right  $\pi$

2.  $y = \cos\left(\frac{1}{2}\theta\right) - 3$



midline equation  $y = -3$

Domain  $[0, 4\pi]$

Range  $[-4, -2]$

midline int(s)  $(\pi, -3), (3\pi, -3)$

Max's  $(0, -2), (4\pi, -2)$

Min's  $(2\pi, -4)$

Period  $[0, 4\pi]$

Phase Shift None