

Graphing Sine & Cosine
TEAM Review
Algebra 2

Name_____

Hour_____ Date_____

Directions: You will be working in teams of 3 or 4. Each member of the team is required to participate. You need to solve all three problems as a team and present them together. Your teachers will be asking all team members questions during the presentation so make sure everyone knows how to do everything 😊

TEAM 1 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

1. $y = -4 \sin \theta + 1$

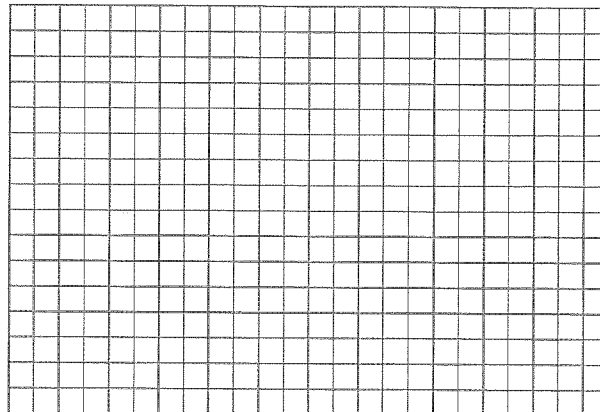
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



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

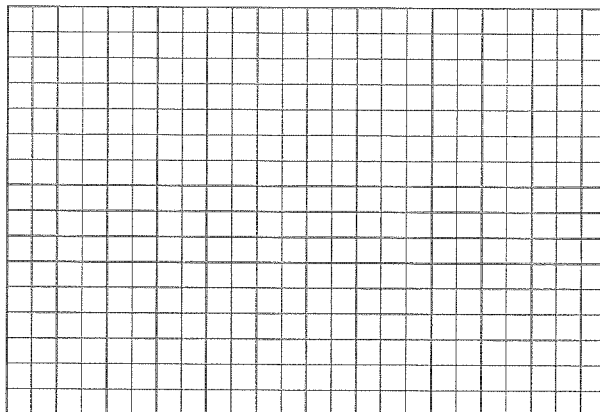
midline-intercept(s): _____

y-intercept: _____

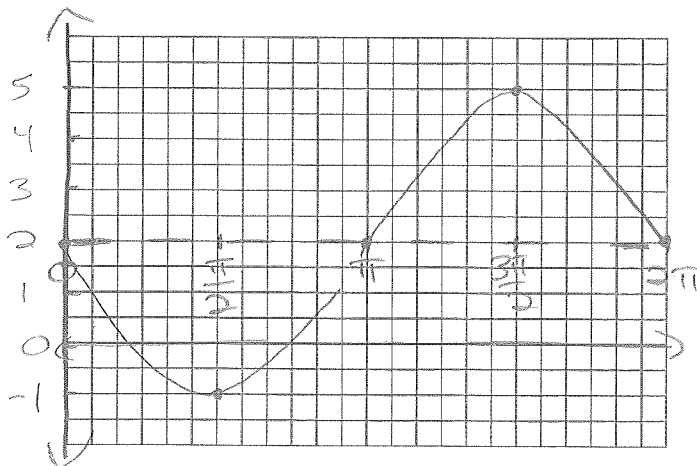
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



3. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 2 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

4. $y = 2 \cos \theta$

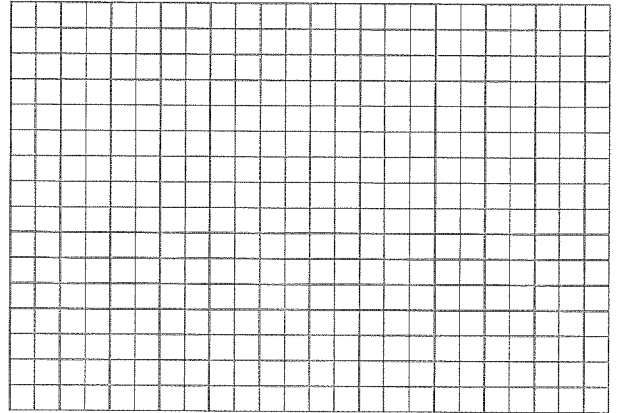
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



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

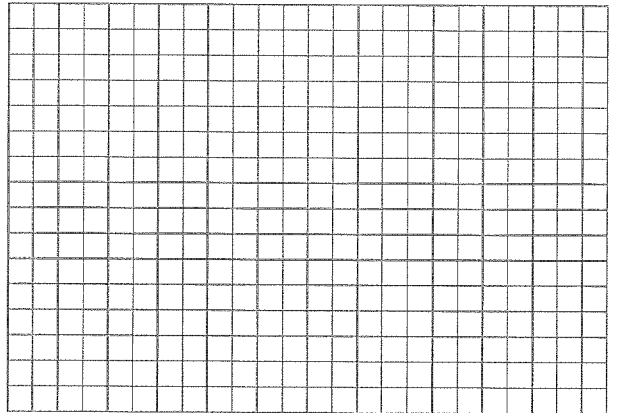
midline-intercept(s): _____

y-intercept: _____

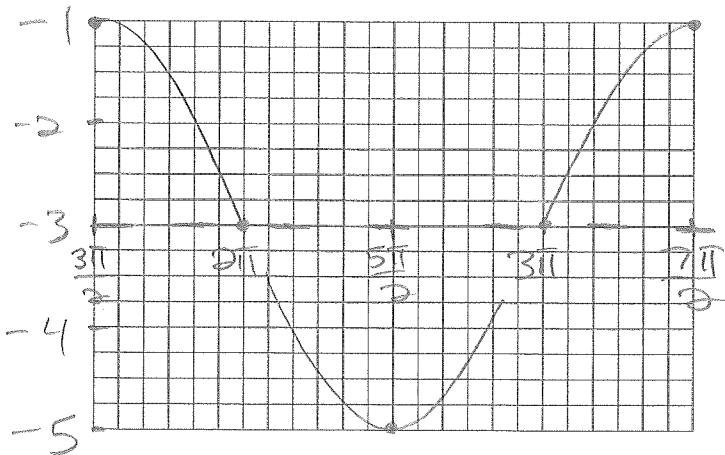
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



6. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 3 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

7. $y = 3 \sin \theta - 4$

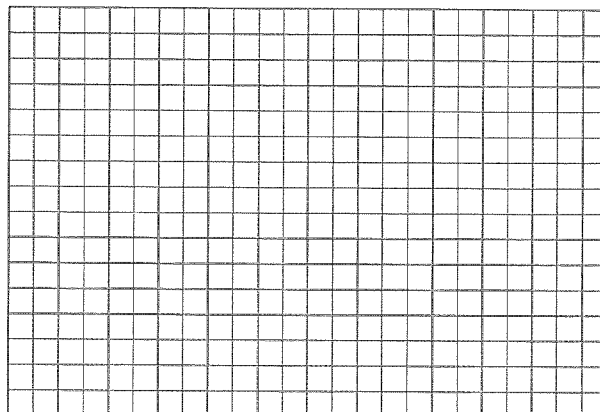
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



8. $y = -2 \cos \left(\theta + \frac{7\pi}{4} \right)$

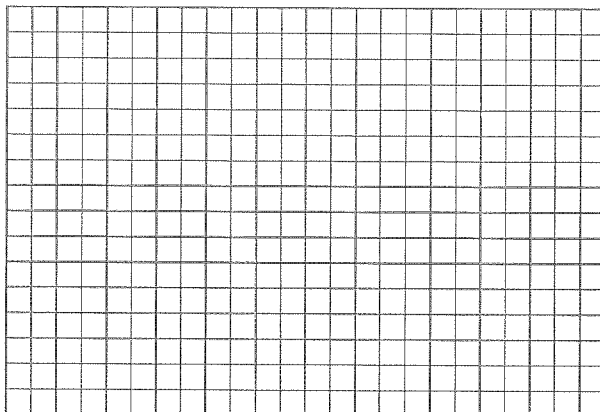
midline-intercept(s): _____

y-intercept: _____

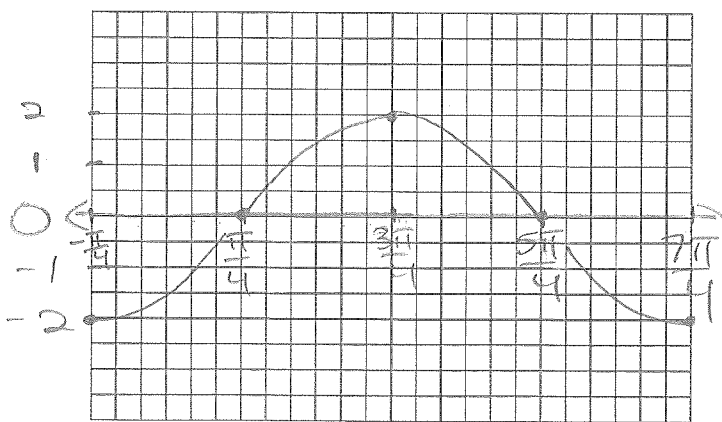
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



9. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 4 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

10. $y = 5 \cos \theta - 1$

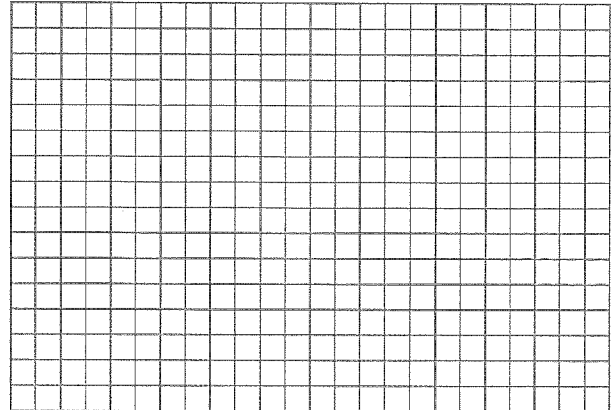
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



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

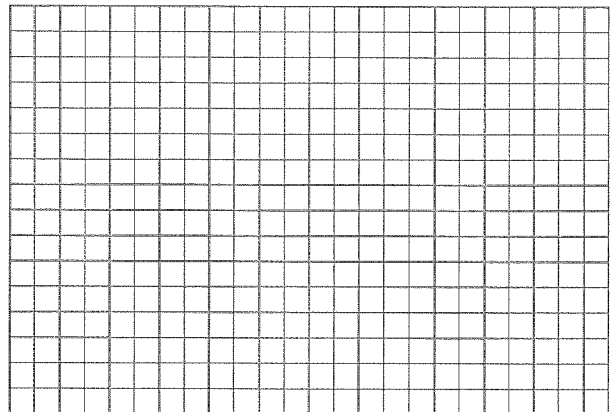
midline-intercept(s): _____

y-intercept: _____

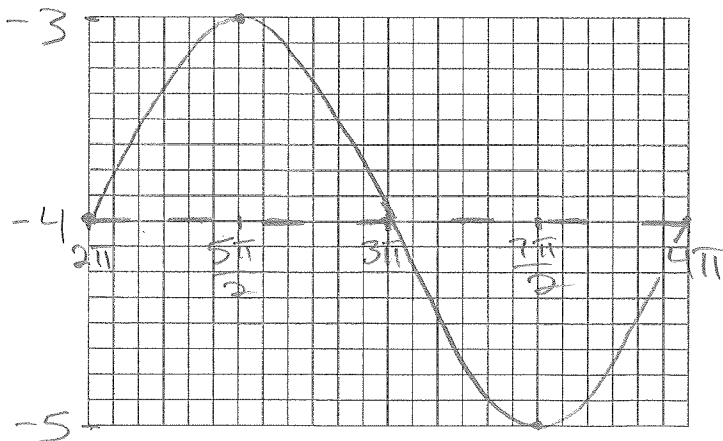
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



12. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 5 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

13. $y = -\sin \theta + 5$

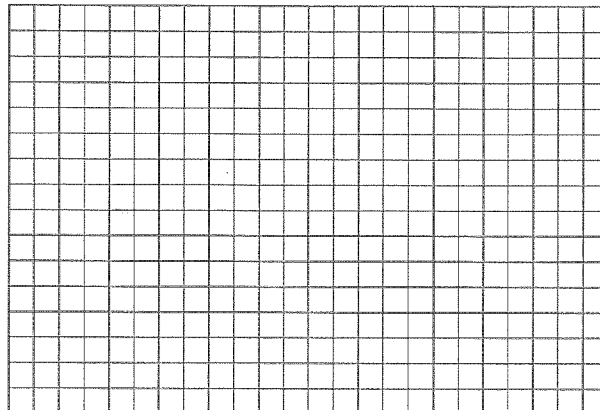
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



14. $y = 4 \cos\left(\theta - \frac{3\pi}{4}\right) + 3$

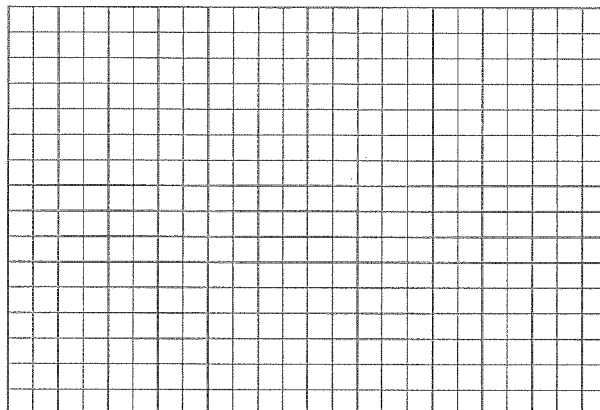
midline-intercept(s): _____

y-intercept: _____

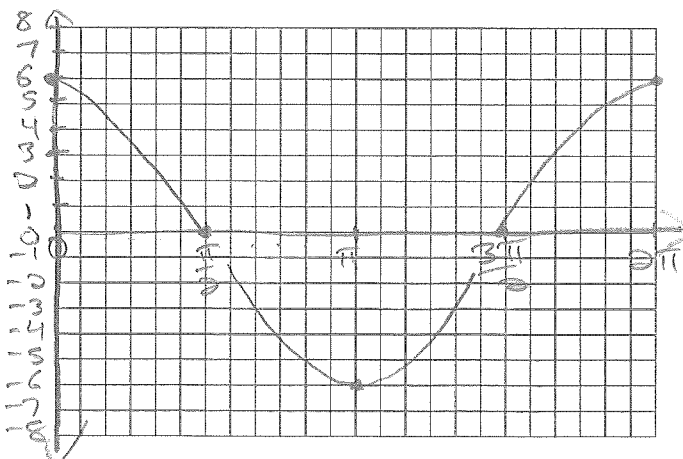
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



15. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 6 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

16. $y = 4 \cos \theta - 5$

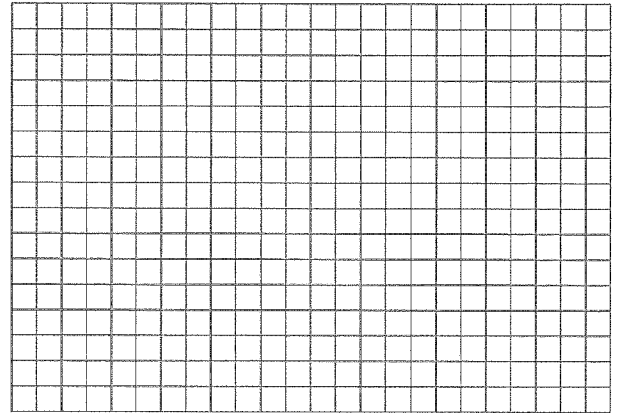
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



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

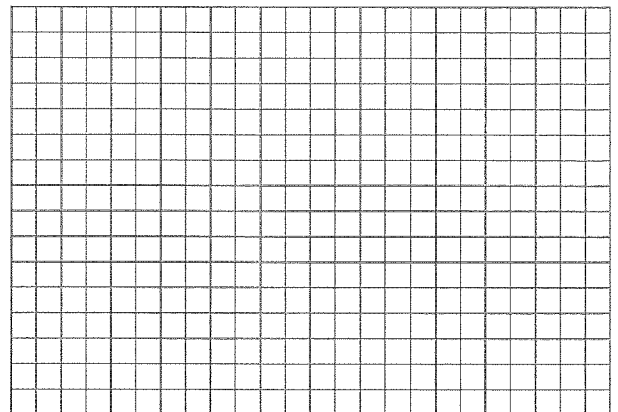
midline-intercept(s): _____

y-intercept: _____

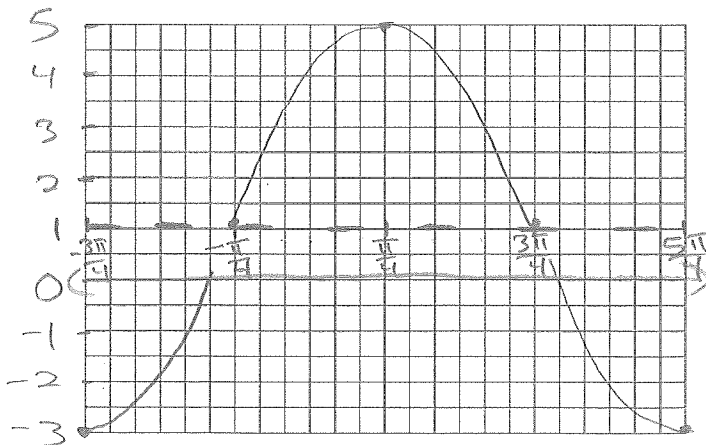
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



18. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 7 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

19. $y = 3 \sin \theta$

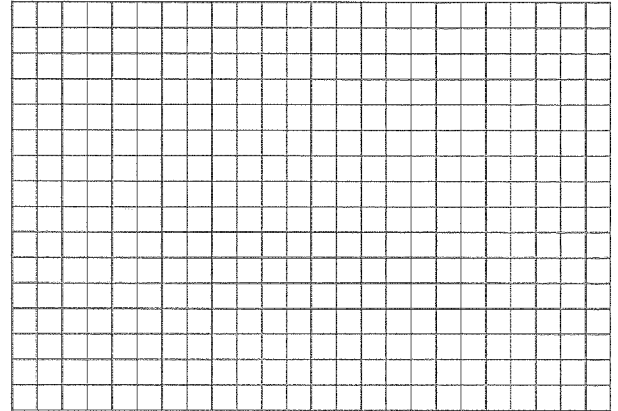
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



20. $y = -2 \cos(\theta - 2\pi) + 6$

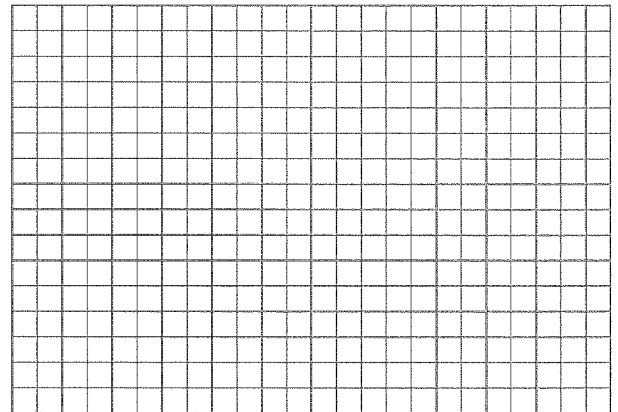
midline-intercept(s): _____

y-intercept: _____

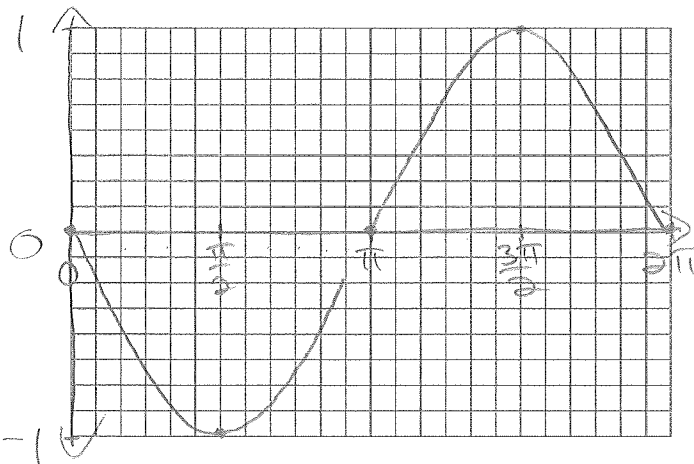
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



21. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 8 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

22. $y = -\cos \theta + 4$

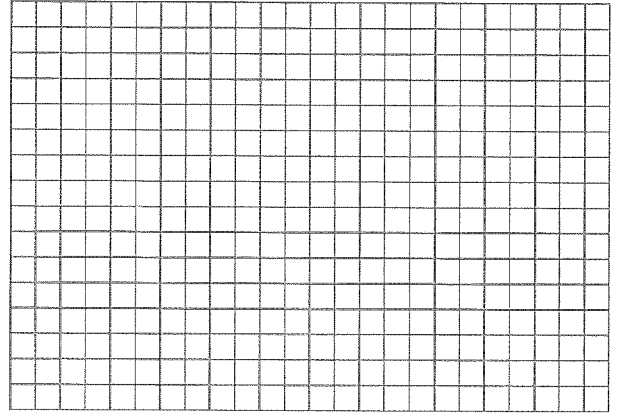
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



23. $y = 7 \cos\left(\theta + \frac{9\pi}{4}\right) - 3$

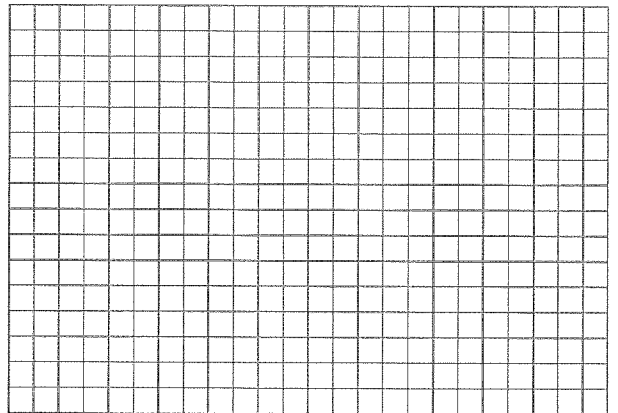
midline-intercept(s): _____

y-intercept: _____

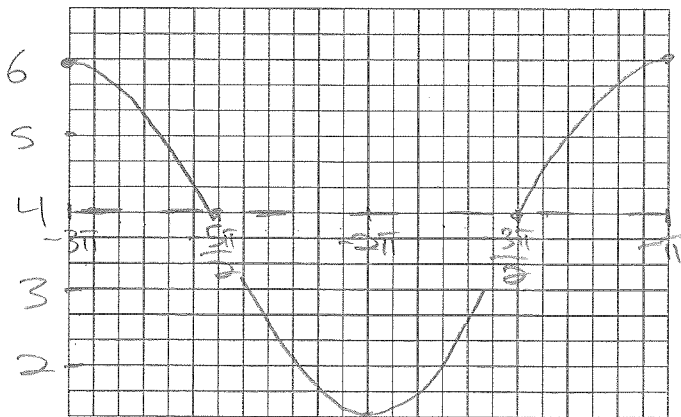
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



24. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____

TEAM 9 Problems

For question #1-2, graph each function. List the midline & y-intercepts, domain, range, maximum(s), and minimum(s).

25. $y = -2 \sin \theta + 6$

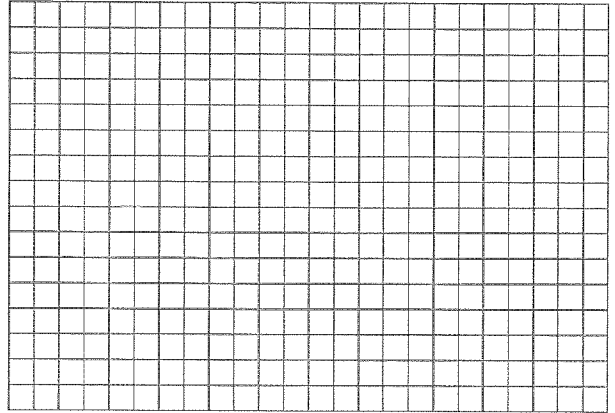
midline-intercept(s): _____

y-intercept: _____

Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



26. $y = 4 \cos\left(\theta - \frac{5\pi}{2}\right) - 1$

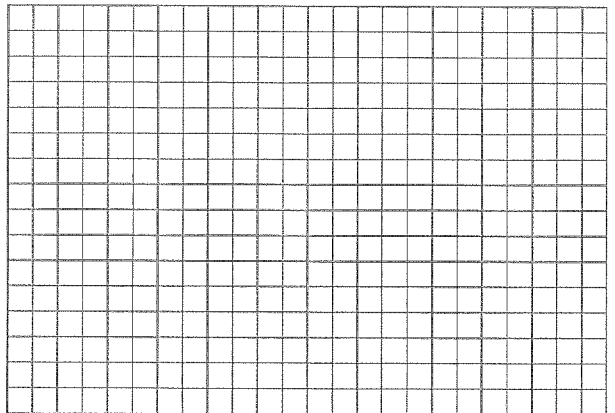
midline-intercept(s): _____

y-intercept: _____

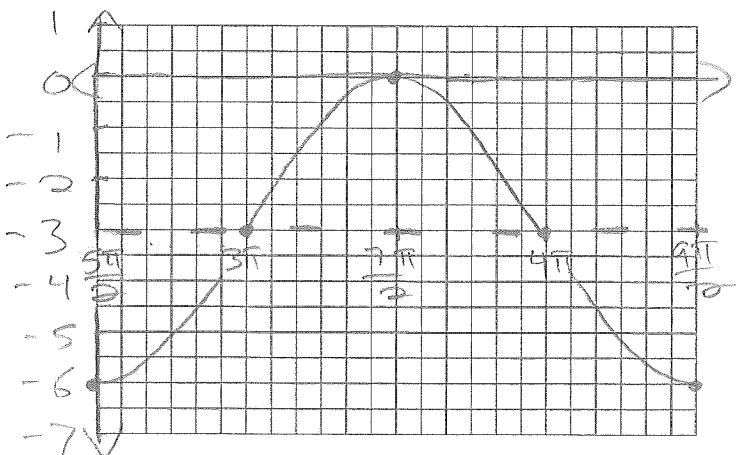
Domain: _____ Range: _____

Maximum(s) _____

Minimum(s) _____



27. Write the equation for each function graphed below. It will help to identify the key information for the graph first: Type, Sign (+/-), Phase Shift, Midline Shift, and amplitude.



Midline Shift _____

Type _____

Sign (+/-) _____

Phase Shift _____

Amplitude _____

Equation _____