

Name _____ Date _____ Period _____

Graphing Sines, Cosines and Tangents

Revised 3/2/2008

Graph each Function from $-2\pi \leq x \leq 2\pi$. State the period, amplitude, x – intercepts, maximum, minimums and asymptotes of each graph.

1. $y = \sin x$
2. $y = 2 \sin x$
3. $y = 4 \sin x$
4. $y = - 2 \sin x$
5. $y = - 3 \sin x$
6. $y = \cos x$
7. $y = 2 \cos x$
8. $y = 3 \cos x$
9. $y = - \cos x$
10. $y = - 3 \cos x$
11. $y = - 4 \cos x$
12. $y = \tan x$
13. $y = 4 \tan x$
14. $y = - \tan x$
15. $y = \sin x + 2$
16. $y = 2 \sin x - 3$
17. $y = 4 \sin x - 1$
18. $y = - 2 \sin x + 2$
19. $y = - 3 \sin x - 1$
20. $y = \cos x - 4$
21. $y = 2 \cos x - 3$
22. $y = 3 \cos x + 1$
23. $y = - \cos x + 3$
24. $y = - 3 \cos x - 2$
25. $y = - 4 \cos x + 1$
26. $y = \tan x + 2$
27. $y = 4 \tan x + 1$
28. $y = - \tan x - 2$

Part 2 Graph each Function from $0 \leq x \leq 2\pi$. State the period, amplitude, x – intercepts, maximum, minimums and asymptotes of each graph.

29. $y = \sin 2x$
30. $y = \sin 4x$
31. $y = \cos 2x$
32. $y = \cos 3x$
33. $y = \tan 2x$

Graph each Function from $0 \leq x \leq 4\pi$. State the period, amplitude, x – intercepts, maximum and minimums of each graph.

34. $y = \sin \frac{1}{2} x$
35. $y = \sin \frac{1}{4} x$
36. $y = \cos \frac{1}{2} x$
37. $y = \cos \frac{1}{4} x$
38. $y = \tan \frac{1}{2} x$
39. $y = \tan \frac{1}{4} x$

