Unit 9 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Secondary III Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluate the following for 

1.  2. 

3.  4. 

Evaluate the following without a calculator

5.  6.  7.  8. 

State which quadrants the following functions are positive in

9. Sine 10. Cosine 11. Tangent

Find the nearest positive and negative co-terminal angles with the following and state the reference angle.

12.  13.  14.  15. 

Solve for the missing value

12

k

1

18°

1

16. 17.

10

k

37°

18. P(-3, 10) lies on the terminal side of an angle of rotation θ, find cosθ.

19. P(-2, -7) lies on the terminal side of an angle of rotation θ, find cscθ.

20. Given that an angle of rotation θ is in quadrant II and cosθ= -¾, find cotθ.

Convert the following into radians or degrees.

21.  22.  23. 

24.  25.  26. 

State the amplitude, phase shift, period, and vertical shift of each of the following

27.  28. 

29.  30. 

Graph the following

31.  32. 



33. 34. 





35. You are on a merry-go-round 12 feet from the center. The merry-go-round takes 8 seconds to make a full revolution. How fast are you moving? Put your answer in feet per second.

36. You take your little brother to the park and you push him in a swing. When you pull the swing all the way back you release the swing 4 meters from its position at rest. Graph a sinusoidal function that represents the swings horizontal displacement relative to its position at rest if it completes one back-and-forth swing every 2 seconds. Ignore air resistance and friction.