The New English Private School

Tel. ☎NEPS 1: 011 320 57 20   NEPS 2:011 836 20 32   NEPS 3: 011-868-59-15   NEPS 4: 011-836-01-55   www. NEPschool.edu.et P.O.Box 18609 Addis Ababa Ethiopia

Name_____	Quarter 3 Date: _____	Subject: <u>Math</u>
Revision Worksheet	Grade: 10 Section _____	Teacher's Name: <u>Mr. Mesfin</u>

I.   Workout show the necessary steps neatly and clearly.

1.   If $\sin\theta = \frac{4}{5}$ and θ is in second quarter, find

   a. $\cos\theta$

   b. $\tan\theta$

   c. $\csc\theta$

   d. $\sec\theta$

   e. $\cot\theta$

2.   What is the exact value of $\cos\frac{19\pi}{6}$

3.   Sketch the graph of sine, cosine and tangent function and determine their domain, range and period. (use $-360^0 \le \theta \le 360^0$)

4.   Define the following phrases and explain them by giving counter example.

   a.   Quadrantal angle

   b.   Co – terminal angle

   c.   Reference angle

5.   Sine function is positive in first and second quadrant. It is negative in third and fourth quadrants. Similarly state the sign of the following functions

   a.   Cosine function

   b.   Cosecant function

   c.   Tangent function

   d.   Cotangent function

   e.   Secant function

6.   Find the trigonometric value of the following functions

   a.   Sin(-1110^0)

   b.   Cos(-1110^0)

7.   If P(6,8) is on the terminal side θ,then find

   a) $\sin\theta$

   b) $\cos\theta$

   c) $\tan\theta$

   d) $\csc\theta$

   e) $\sec\theta$

   f) $\cot\theta$

8 Let $\sin x=\frac{1}{4}$ and x E $(0,\frac{\pi}{2})$,then find the value of

   a) $\sin(90-x)$

   b) $\tan(x+\pi)$

   c) $\cos(x+2\pi)$

9 At Point on a level grond &@m from the foot of a tower, the angle of elevation of the top of the tower is found to be 60^0 what is the height of the tower?

10 Write at least three quadrantal angle?

11 .What is the radian measure for -950^0?

12 What is the degree measure for $\frac{5\pi}{2}$?

13.What is the reference angle 210^0?

14 Simplify $\sin^2(17^0)+\cos^2(17^0)$

15 In which quadrant(S) is secant of an angle positive?