**CCHS Mathematics III**

**Credit 2B Assessment Study Guide**

Define the following Mathematical Terms

|  |  |  |  |
| --- | --- | --- | --- |
| version | function | period | Odd function |
| Even function | Sector area | Arc length | radius  |
| diameter | triangle | Central angle | Angle measure |
| Sin | Cos | Tan | Square Pyramid |
| Trigonometric ratios | amplitude | Phase shift | Vertical shift |
| period | Polar coordinates | radians | degrees |
| coterminal | Positive angle | Negative angle | asymptotes |

Understand the following Tasks

1. Given a triangle identify trig ratios.
2. Given a triangle identify the angles of a triangle using trig ratios.
3. Write the equation to shift a function up or down.
4. Write the equation to shift a function left or right.
5. Identify an even or odd trig function.
6. Given facts about a circle radius and central angle find the arc length of a circle.
7. Convert radians to degrees.
8. Convert degrees to radians.
9. Mark the amplitude of a trig function on a graph.
10. Identify the amplitude of a trig function.
11. Identify the phase shift from an equation of a trig function.
12. Identify the vertical shift from an equation of a trig function.
13. Identify the period of a trig function.
14. Identify an angle in a quadrant.
15. Identify a radian in a quadrant.
16. Write the polar coordinates for a point.
17. Graph the tangent function and identify the asymptotes.
18. Use Heron’s Formula to find the area of a triangle.