PC – Trigonometry

Areas to Review for Final Exam!

(This is a guide, not the only thing you should look at to review!)

Test 1 – Circles & Trigonometry

- Converting from Degrees to Radians to Revolutions and back (For radians and revolutions keeping the "nice neat fraction.")
- Estimating the number of radians shaded
- Arc Length and Area of a Sector
- The Unit Circle – What is it?
- What does the sine, cosine and tangent functions measure on a unit circle? Where and why are they negative and positive?
- Using sine and cosine to find the coordinates of any point on a unit circle
- Finding exact values of any of the trigonometric functions
- Solving trigonometric functions

Test – 2 Graphing Trigonometric functions

- Period – relationship to the function, graph, circle and definition
- Amplitude – relationship to the function, graph, circle and definition
- Relating a point on the unit circle to the graph of sine or cosine
- Graphing the six trigonometric functions (sine, cosine, tangent, cotangent, secant, and cosecant)
- Writing equations for graphs of the six trigonometric functions
- Applications of the trigonometric functions (ex. Ferris wheel)

Test – 3 Trigonometric Identities

- Simplifying Trigonometric Expressions
- Verifying using trigonometric identities

Inverses and solving equations

- Use the inverse relationships to solve trigonometric equations