**Trigonometry - Unit 1- Gettin’ Triggy with it**

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| **Date** | **Lesson topics** | **Homework** |
| **Thursday 1/8** | ***Trig Ratios to Memorize / 4.1A Angles and Their Measures***  Degrees/Radian conversion, DMS/Degree conversion, Arc Length,  ***Start Filling in Unit Circle*** | Pg. 343 #1-34, |
| **Friday 1/9** | **4.1B - Angles and Their Measures**  Linear vs. Angular Speed, Bearing to Degrees and back  *Word Problems with arc length, drawing bearing diagrams.* | Pg. 343: #36, 39-44, 47, 48 |
| **Tuesday 1/13** | *Timed unit circle quiz #1 (4mins)*  *0-90 degrees only*  ***4.2 - Trig functions of Acute Angles***  6 Trig functions, Calculator Use, Solving Right Triangles  ***Fill in Full unit circle*** | Pg. 352: #8-18even, 19-24, 26-36 even, 37-44, 47, 48, 50, 57, 58, 60 |
| **Thursday 1/15** | *Timed unit circle quiz #2*  *full circle*  ***4.3 - Circular Functions*** | Pg. 365 #1, 6, 11-45, 59, 60 |
| **Friday 1/16** | *Timed unit circle quiz #3*  *full circle*  ***Review 4.1-4.3*** | 4.1-4.3 Review and Graphing Sine and Cosine WS |
| **Tuesday 1/20** | ***Quiz 4.1-4.3***  ***and 4.4A Graphing Sine and Cosine*** | Graphing WS Part I |
| **Thursday 1/22** | ***4.4B - Graphing Sine and Cosine***  ***All transformations*** | Graphing WS Part II |
| **Tuesday 1/27** | ***4.5 - Graphing Tangent/Cotangent/Secant/cosecant*** | Graphing WS part III |
| **Thursday 1/29** | ***4.7 - Inverse Trig Functions*** | Pg. 402 #1-32, 43-48 |
| **Friday 1/30** | ***Quiz Graphing Trig Functions***  And **4.8 Solving word problems w/Trig** | Pg. 410 #1-12, 15, 16, 19, 20 |
| **Tuesday 2/3** | More Word Problems and Sunusoidal Word Probs and Review | Sinusoidal WS |
| **Thursday 2/5** | Review | Review WS |
| **Friday 2/6** | ***First ½ of Unit 1 test*** |  |
| **Tuesday 2/10** | ***Second ½ Unit 1 test*** |  |

**Trigonometry Unit 1 Goals:**

- Memorize and understand the unit circle!!!! NEVER FORGET IT

- convert from degrees to DMS and convert from DMS to degree

- convert degree to radians and radians to degrees

- arc length

- linear speed (how far something travels)

- angular speed (how many revolutions in a time period)

- all 6 trig ratios

- co-terminal angles

- reference angles

- inverse trig functions (arccos, arcsin, arctan etc.)

- graphing sin, cos and tan curves and their inverses

periods, max, min, amplitudes, shifts, stretches/shrinks