**H. Geom. Parabolas and Circles Feb. 3 - 25**

*Assignments are due the following day. All assignments are from Green Book.*

*BE SURE TO HAVE YOUR CALCULATOR EVERY DAY!*

*USE GRAPH PAPER FOR GRAPHING PROBLEMS.*

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| **1** | Monday  Feb. 3 | *Graph*  *Parabolas* | p. 484 # 11, 13, 15, 16  *Make a table, graph, check w/ calculator.* |
| **2** | Tuesday  Feb. 4 | Analyze Parabolas | p. 484# 13, 18, 23, 25, 27 *Analyze as in class, make a sketch, label critical points with coordinates.* |
|  | Wednesday Feb. 5 | **SNOW DAY** | |
| **3** | Thursday  Feb. 6 | Calculator Use | *Analyze and sketch:*  *, ,*  *Use calculator to find critical values:*  *Handout “Change one thing” - odds* |
| **4** | Friday  Feb. 7 | Vertex Form | p. 480# 11, 14, 16  p. 484# 35, 37, 38  *Handout “Change one thing” - evens* |
| **5** | Monday  Feb. 10 | Circles | p. 490# 3-6, 9-12, 19, 20, 29, 31, 33 |
| **6** | Tuesday  Feb. 11 | Double  Complete  The Square | p. 480# 13, 15, 17  p. 490# 13, 15, 23, 25 |
| **7** | Wednesday Feb. 12 | Systems  Graphically | p. 491# 39 p. 512 # 10  p. 498# 13, 15, 17, 23 *Solve these with a graph. I will check. 4 nice graphs. Got it?* |
| **8** | Thursday  Feb. 13 | Systems  Algebraically | p. 484 # 36 p. 491# 42  p. 498# 13, 15, 17, 23  *use algebra* |
| **9** | Friday  Feb. 14 | Tessellations | Extra Credit Tessellation Assignment  -see edmodo |
| **February Break**  **No School** | | | |
| **10** | Monday  Feb. 24 | Review | Review Sheet -Answers online |
| **11** | Tuesday  Feb. 25 | TEST |  |

**What you should know by the end of this Unit…**

* How to sketch a parabola from the equation.
* How to write the equation of a parabola given the graph.
* What the critical features of a parabola are, and how to analyze them.
* How to use your calculator to analyze a parabola.
* How to sketch a circle given the equation.
* How to derive the equation of a circle given information about the graph.
* How to complete the square with two variables.
* How to solve a linear/quadratic system of equations graphically.
* How to solve a linear/quadratic system of equations algebraically.
* How to use both the “algebraic” and “graph” version of the equations of lines, parabolas and circles.