**Monday, 1.13.25**

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| ***OBJECTIVES:*** |
| ***Understand linear models. Be able to do the following:*** |
| * Know how to find the intersection of 2 lines. |
| * Use slope-intercept linear form. |
| * Use point-slope linear form. |
| * Use general linear form to graph a line. |
| * Use general linear form to find the x-intercept, the y-intercept, and the slope of the line. |
| * Know and use the definition of slope. |
| * Understand the concept of slope: positive slope, negative slope, indeterminant slope. |
| * Know the relationship between the slopes of 2 parallel lines. |
| * Know the relationship between the slopes of 2 perpendicular lines. |
| * Solving systems of equations using the Gauss-Jordan Elimination Matrix Method (**rref** on your TI-84 graphing calculator). |

**Turn in** your completed, signed, and dated ***Classroom Procedures Agreement***.

**Entry Work:** Find the intersection of 2 lines, using your TI-84 graphing calculator.

**Class Work:** Discussion of linear models.

**Discuss the previously assigned work:** Linear Models Review (10 Problems). \_\_Handout posted on Google Classroom earlier and received in class on Monday.

**Class Work:** Solve the following systems of equations using **rref (aka, the Gauss-Jordan Elimination Matrix Method)** on your TI-84 calculator:

1. 6x + 2y = 8 2) 2x + 3y = 12 3) 2x + 3y = 12

3x + y = 4 - 3x + 2y = 12 2x + 3y = 14

**Homework:**

* Solve the following system of equations using a matrix and the **rref** feature on your TI-84.

**x − 2y + 3z = 7**

**2x + y + z = 4**

**-3x + 2y − 2z = -10**

**Wednesday, 1.15.25**

**Entry Work:** 3 SAT Questions

**Discuss the Linear Models Review for the Linear Models Test** to be taken on **Friday, 1.17.25.** You may use one page of notes and your TI-84 when you take this test.

**Friday, 1.17.25**

**Linear Models Test**

**Homework:** Linear Models Project

**Monday, 1.20.25: HOLIDAY, NO CLASS**