Calculus 1**: Distance Learning Activity, Day 2: 3-18-20**

**Overview:**

* Today students will review taking the derivative using the power and product rules with an emphasis on trig derivatives
* Today students will also review some algebraic concepts to hone their skills and prepare them for college placement tests.

**Estimated Time:** Approximately 30-45 minutes

**Explanation:**

* Students should become very comfortable finding the derivative of polynomial that include trig functions using the appropriate rule

**Materials that are Needed:**

* Extra derivative problems pdf
* College Placement Sample Test questions document

**Things to know:**

* These are review problems from the last unit on derivatives, which is really the first true Calc 1 unit. The rest of the year is based on derivatives, so having a very solid understanding of them is crucial.
* We will complete these problems over the next 4 days
* My answer key for the *Extra Derivative Problems* can be found either on the OneNote under Unit 3 derivatives, the distance learning tab on my school wires teacher website or in the email that I sent
* If you have questions, please email me and I will either answer you individually or set up an office hour through Teams later in the week
* The college placement test questions are to help you with just that- you will need to take a placement test for math, so the college knows what math class to place you in. We will complete these problems spread though out the week.
* My answer key for the *College Placement Sample Test* can also be found on the distance learning tab on my school wires teacher website or on the email that I sent out

**Tasks:**

1. Instructional Input Activity

* Review the derivatives of trig functions and the 4 derivative rules in your notes (3-5 minutes). Write out the trig derivatives a few times to help your brain remember them via muscle memory

1. Independent Practice Activity

* Complete Exercise 3.4 # 1-8 on the *Extra Derivative Problems* wkst
* Check your answers with the answer key
* Complete the College Placement Sample Test # 8-20. This is heavy on fractions-a good review of some basic math concepts that we sometimes struggle with!
* Check your answers with the answer key

**How is this assignment turned in to the teacher and what kind of feedback will be received?**

* This assignment does not need to be turned in, but you are welcome to send me any questions you have. Next week, we will have an assignment that you will send to me.