PreCalculus Summer Work

As we move into the next school year, we prepare for new challenges and experiences. However, it is important that our foundation is sound and on sure footing. Throughout the summer, you will complete a series of modules in onCampus labeled Honors PreCaclulus in the **Assignment** tab of the class "Mathematics Summer Nurturing Skills Course." The purpose of this work is to keep you current in your math skills and to make sure you are prepared to complete standard tasks that will come up in a PreCalculus class. After discussion with students and personal reflection, I have created what I believe will be an appropriate level of work to complete throughout the summer.

The work will be organized into two week chunks, in order to account for vacations, down time, jobs, personal responsibilities, and such. It is not my intention for you to struggle through this work, but if you have questions I will be available via email. You are encouraged to use online resources to review topics independently before asking for help. The schedule is as follows:

Assignment 1 –   Due July 15, 2018
    Lines and Parabolas: This section will give you an opportunity to practice finding the **slope** between two points, giving the **equation of a line** when given two points, and **graphing lines**. This section will include **factoring** and finding **x and y intercepts** of quadratics. Please use your calculators if you know how.

Assignment 2 –   Due July 29, 2018
    Trigonometry: This section will mostly ask you to solve **right triangles** for missing sides or angles, giving you an opportunity to use the **Pythagorean Theorem** and **SOH CAH TOA**.

Assignment 3 –   Due August 12, 2018
    Exponent Rules: This section will offer questions where the goal is to simplify or expand radical, rational, monomial, and polynomial exponent expressions using the **Distributive Property** as well as the **Product Rule for Exponents**, the **Quotient Rule for Exponents**, and the **Power Rule for Exponents**.

Assignment 4 –   Due August 26, 2018
    Representation of Information: This section will provide equations for you to solve and graphs for you to read, analyze and describe. The purpose of this is for you to connect **equations**, **charts**, and **words** with **graphical representation**.

Assignments will be listed in in the Assignments tab. We will maintain a Sunday night schedule throughout the summer. *Assignments will close at midnight on their due dates* as they do throughout the year; I will not be reopening assignments after their due dates. These assignments will be put into a single online assignment grade for first quarter next year.

If you have any further questions or concerns, do not hesitate to contact me.

Ms. T
danielletornabene@concordiaprepschool.org