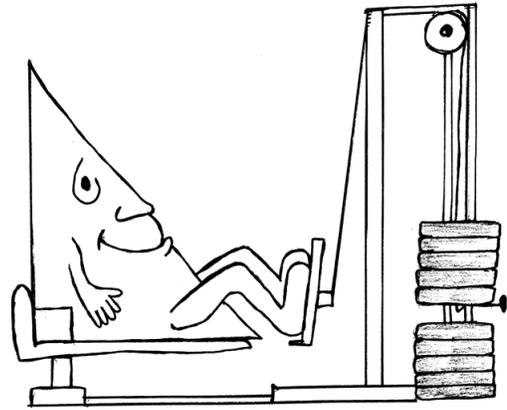# Calculus Summer Assignments

Our mental ability in mathematics is like a muscle – to maintain our mental skills we need to exercise our mind and through exercise our abilities grow. Therefore it is necessary that each of us spend some time practicing math over the summer to keep in shape.

On top of that, **Calculus** is a course that acts a culmination of all the math you have learned in school so far. Therefore it is important we regularly refresh our memory of what previously learned. Calculus is the mathematical study of change, just as geometry is the study of shapes and algebra is the study of using variables and symbols to find patterns and solve equations. There are two main parts to Calculus: differential calculus (involving the rate of change in a function) and integral calculus (involving the summation of values and the area and volume beneath curves or planes). Calculus was developed mostly by Isaac Newton and Gottfried Leibniz in the 17th century and has led to numerous advances and discoveries in the fields of physics, engineering, finance, medicine, statistics, acoustics, and more.

For those of us taking Calculus in 2016-2017, there are two (2) parts to our summer work.
1) Complete the section on limits on Khan Academy
2) Complete your Deltamath Assignment

To access the Khan Academy assignment
1) Sign up at khanacademy.org (or log in with an existing account)
2) Visit www.khanacademy.org/coaches
3) There, in the "Add a coach" field, enter the class code **EUNPDY**. Now you should see Avery Nielsen as your coach.
4) Now watch all the videos and complete all the problems on the given link: Khan Academy: Precalculus Limits: https://goo.gl/wmmW4k

To access the Deltamath assignment
1) go to www.deltamath.com
2) click "create new account"
3) type in the code "**161164**" – you should now see the name Avery Nielsen.
4) Fill out all fields, and for "class" select "**Summer Calculus"**
5) Complete the assignment as directed in the video in the folder-link below

Video-Help link: https://goo.gl/S0BJLd
(that is a zero, not an "o" between the S and B)

Please note: Your first two grades in your Calculus class will come from the completion of these two assignments.