



Albert Einstein High School

Summer Task Cover Sheet



Teacher(s): Nancy L. Griffin and Timothy C. Miyamoto

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Course: IB Math Analysis

- ✓ **Purpose of the Summer Assignment:** When you solve the equation $5x + 3 = 48$ you do not put a lot of thought into subtracting 3 from 48 or dividing 45 by 5. This is because you have internalized arithmetic processes and facts; think of these as part of your mathematical toolkit. In order to complete higher level mathematics you need to internalize the processes and facts associated with algebra and trigonometry. You started developing this skill level in your Algebra II and Pre – Calculus courses.
- ✓ **Relationship between Summer Task and 1st Quarter Objectives:** The summer assignment is designed to identify and correct any deficiencies of entry – level algebra skills as you absolutely *must* have a strong foundation in algebra to be successful in IB Analysis. The problems set(s) you will be completing include a sampling of problems that students entering IB Analysis should be able to answer without much hesitation.
- ✓ **Description of the Task:** You are to join the Khan Academy class with code **H62MGKAQ**; sign in instructions are listed at the end of this document.

After joining the class you need to complete the four diagnostic quizzes for math. Your performance will be rated as level one to level four on a list of math topics. You need to spend as much time as is necessary on practice exercises so you are rated at level three or level four on each of the topics by the first day of school. The dashboard showing your status will be the primary basis for your summer work grade.

- ✓ **Supportive Resources:** Internet sites such as Khan Academy, PatrickJMT, & university websites Ms. Griffin and Mr. Miyamoto will respond to email but may not answer immediately.
- ✓ **Grading:** In addition to the results shown on your dashboard there will also be 4 mini quizzes given. The schedule for these mini quizzes will be distributed on the first day of class.
- ✓ **DEADLINE:** First day of school
- ✓ **Grading Category:** Formative
- ✓ **Points:** 12.5% of Formative; this category is 40% of your grade.
- ✓ **Extent to which the summer task counts towards the marking period grade:** As $(.125)(.40) = .05$, this will be 5% of your first quarter grade.



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Please understand, the curriculum for IB Analysis SL (and your teacher) will expect you to approach problems with the mathematical *toolkit* needed to do the calculations and the mathematical *understanding* needed to make sense of unusual problems. This is not a class where every problem you see on tests and quizzes is identical to problems you've done dozens of times in class. This is because the IB SL test itself (and, truly, all "real" mathematics) requires you to take what you know and apply it, rather than to simply regurgitate a rote process. These are skills we will polish all year.

Now that I've said all of this, I encourage you to take a deep breath and start working. Do not wait until the last few days of summer to begin on this packet. If you spread it out, you will most likely retain the information much better. When you have the basics down and you put in the work needed, you'll see how amazing mathematics is!

IT IS IMPORTANT THAT YOU SIGN UP FOR THE KHAN ACADEMY CLASS LISTED BELOW.

THIS WILL ALLOW US TO CONTACT YOU THIS SUMMER, IF NEEDED AS WE WILL HAVE YOUR EMAIL ADDRESS.

- 1 Sign up at khanacademy.org (or log in if you already have an account).
- 2 Visit khanacademy.org/coaches (the "Coaches" tab in your profile).
- 3 In the "Join a class" field, enter the class code.

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