Dear HL2 students and their parents,

I hope you are staying safe and healthy as we face this difficult time. I truly miss all of my students and my daily routine at Skyline. I recognize once more how privileged I am working with our HL2 students.

While my students are staying home, I would like to support them with some Pre HL review materials to enhance their mathematical skills. In accordance with District Policy, they are review materials, the students are not required to learn any new mathematical skills. The objectives are that these will maintain and strengthen their existing math skills and IB Exam preparation. The performance of the student on this supporting material will not be graded, but only self-monitored and self-checked. I will be sending out an email every Monday as a reminder. The materials and the solutions will be posted in Shim’s website (Mrs. Shim’s Math Classes). In addition, I encourage all my students to email me if there are any questions on the math problems or any general question.

Expected schedule:

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| Week of 3/23-3/27  **Topic one: Algebra**  Sequences and Series, Exponentials and Logarithms, Counting/binomial theorem, Math induction, and Complex numbers (#1-#83) | Monday (3/23) | The Work will be posted at Shim’s Website.  *Expectation: Organize your work and show the steps by your best effort.* |
|  | Thursday (3/27) | The Solutions will be posted at Shim’s Website.  *Expectation: Check your work and correct your work.* |
| Week of 3/30-4/**3**  **Topic two: Functions and Equations**  Functions, Exponential/logarithmic functions, Quadratics, and Polynomials (#1-#60) | Monday (3/30) | The Work will be posted at Shim’s Website.  *Expectation: Organize your work and show the steps by your best effort.* |
|  | Thursday (4/2) | The Solutions will be posted at Shim’s Website.  *Expectation: Check your work and correct your work.* |
| Week of 4/6-4/10  **Topic Three: Circular Functions and Trigonometry**  Trig functions, Identities, Equations (#1-#45) | Monday (4/6) | The Work will be posted at Shim’s Website.  *Expectation: Organize your work and show the steps by your best effort.* |
|  | Thursday (4/9) | The Solutions will be posted at Shim’s Website.  *Expectation: Check your work and correct your work.* |
| Week of 4/13-4/17 (Spring Break) |  | *Take a break. Stay safe and healthy.* |
| Week of 4/20-4/24  **Topic 4 and Topic 6: Vectors and Calculus**  Dot and Cross Product, Lines/Planes, Intersection of planes, Limits, Differentiation, Curve analysis, Kinematic, Optimization, Integration, and Solid of Revolution. (#1-#28 and #1-#53) | Monday (4/20) | The Work will be posted at Shim’s Website.  *Expectation: Organize your work and show the steps by your best effort.* |
|  | Thursday (4/23) | The Solutions will be posted at Shim’s Website.  *Expectation: Check your work and correct your work.* |

Notes: The solutions are posted later deliberately to encourage the students do their work with their own best effort. Topic 5: Statistics and Probability are not covered in class, therefore, the topic 5 is not included here.

Thank you for all your support and wish you the best.

Sincerely,

Hearan Shim

*IB Math Pre HL and HL2 Teacher*

*National Board Certified*

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*Skyline High School*