

Summer Assignment

Course Title: BC Calculus

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Purpose of Assignment: Review calculus topics (see Calculus packet) and review Parametric, Matrix, and Polar Topics (see the Precalculus Packet) - (both packets are on canvas – email me your student ID# to join the canvas course or self enroll with this URL: <https://apsva.instructure.com/enroll/68LM77>. Alternatively, sign up at <https://apsva.instructure.com/register> and use the following join code: 68LM77

Estimated time to complete Assignment: 6 hours

Due date and method of assessment for Assignment: Upload one single file with all of your work on it by the beginning of the second week of school. There will be a Chapter 1 and Selected Topic in Precalculus Test the first class period of the second week of school on all the topics listed below. Your summer assignment will count as 7 homework assignment grades and will be checked for completion. If you were in AB Calculus Last year, complete #1-#3 below. If you were in SL1 Math last year, complete #4, and #5 below.

Instructions for Assignment: In the packets (found in Canvas) do the following:

1. **Parametric Equations.** Read 6.3. Do #7, 11, 15, 23, 27, 29, 37, 39, 43, 51, 53, 59, 61, 65;
2. **Polar Functions.** Read 6.4. Do #1, 5, 7, 15, 23, 27, 31-34 all, 35-49 odd, 51, 57, 59, 61, 62, 63;
3. **Graphs of Polar Functions:** Read 6.5. Do #3, 5, 13, 21, 23, 29, 33, 39, 41, 43, 61, 63, 65, 67, 68.
4. **Average and Instantaneous Rate of Change**
 - a) Read 1.1 Do p 5 # 1, 2;
 - b) Read 1.2 Do p 11 Q1-10 # 5, 6, 13, 17, 23, 27, 29;
5. **Definite Integrals**
 - a) Read 1.3 Do p 16 Q1-10 #2, 4, 6, 9, 11-14;
 - b) Read 1.4 Do p 21 Q1-10 # 1, 2, 7, R1, 3, 4.

For additional resources such as videos and polar graph paper, see the following pages in the canvas module! I look forward to meeting you soon!

Mrs Carr