

First name: \_\_\_\_\_ Last name: \_\_\_\_\_

### **Tentative Calculus and Vectors Course Outline**

<b>Unit 1</b> An introduction to calculus (1)	Lesson 1
<b>Unit 1</b> An introduction to calculus (2)	Lesson 2
<b>Unit 2</b> Derivatives (1)	Lesson 3
<b>Unit 2</b> Derivatives (2)	Lesson 4
<b>Unit 2</b> Derivatives (3)	Lesson 5
<b>Unit 3</b> Derivatives and their applications (1)	Lesson 6
<b>Unit 3</b> Derivatives and their applications (2)	Lesson 7
<b>Unit 4</b> Curves sketching	Lesson 8
<b>Open Book Test 1 (Units 1, 2, 3, 4)</b>	<b>Lesson 9</b>
<b>Unit 5</b> An introduction to vectors	Lesson 10
<b>Unit 6</b> Applications of vectors (1)	Lesson 11
<b>Unit 6</b> Applications of vectors (2)	Lesson 12
<b>Unit 7</b> Equations of lines and planes	Lesson 13
<b>Unit 8</b> Relationships between points, lines and planes (1)	Lesson 14
<b>Unit 8</b> Relationships between points, lines and planes (2)	Lesson 15
<b>Open Book Test 2 (Units 5, 6, 7, 8)</b>	<b>Lesson 16</b>

**NOTE** - Each class is 2.5 hours. Total 40 hours.

## ATTENDANCE

- Please enter the zoom meeting 5 minutes before class to get ready by taking out your notes and homework.
- Remember to always have your First and Last name on your zoom profile and nothing inappropriate.
- If leaving early for any reason, please let the teacher know before leaving the meeting.
- Since the course is fast paced, absences are not recommended.
- If absence was to occur, students should plan for a make-up class at another session. If there is no possible make up class available, students should study posted notes and try the homework at home to avoid falling behind too much.

## HOMEWORK

- There is homework after each class. The homework is posted on Olympiads School website: <http://www.olympiads.ca/> and it will be assigned to Classkick for students to upload. If you can't find the homework on school's website, please contact the school right away.
- You will need to make a **portfolio account** using the Classkick code given to you by your teacher.
- Please remember the username and password for your account, as you will use it to access and upload homework every week.
- Students need to print out the homework after each class and finish it by the next class. Make sure to check the outline and the title of the homework before doing it. The following week's homework is sometimes posted early so you might do the wrong one.
- Students will submit homework by uploading it onto Classkick. Please make sure the file is clear and legible. We suggest you scan your homework.
- The homework is marked with "P" for pass and "I" for incomplete. If you do get an "I", the teacher will let you know how to fix it so you can resubmit to pass the homework.

## HOMEWORK EXPECTATION

- Homework must be done BEFORE class. There is no homework for the test weeks.
- THREE times of not submitting the homework will be called home to communicate

with the parents in order to help you better manage your time and achieve your goal in math.

- Late homework is accepted. Please “raise your hand” on Classkick for check.
- Show ALL your work by providing complete and organized steps. Answer the questions as if the reader is learning the concept from you, not as if s/he already understands it. “**SW**” symbol (show work) will be used if fail to do so.
- Conclusion sentence is required for all word problems. Use “**∴**” symbol.
- If a problem requires you to EXPLAIN, please do so using complete sentences with supporting detail.
- Proper math format must be used such as use of “=” sign, units, etc... “**MF**” symbol (math format) will be used to identify any possible math format error.
- Circle all your final answers.
- Leave space next to each problem for homework corrections. Teacher will take up most of questions during class. However, this doesn’t mean you don’t need to do your homework at home. Try to do your best!
- All returned homework assignments must be stored in your binder until the end of the term. These assignments will be needed to study for your tests.

## CLASSROOM EXPECTATION

**All students are expected to:**

- Come to class and prepared with all your Math supplies (especially Calculator!) and completed homework.
- Be on time, ready to learn and participate during class.
- **Must have webcam on at all times**
- Stay on task without disturbing or distracting others. This includes chatting with each other using the zoom chat.
- Raise your hand if you have any questions or comments and wait to be called.
- Since classes are online, all students need to focused on the lesson and not distracted by other activities such as being on social media, watching videos or playing games.
- Show respect for yourself, and for others

## *Olympiads School Calculus and Vectors Course Outline*

- Act in a responsible manner in everything you do.
- Olympiads School teaches at a fast pace, so if you feel the course is too hard or too easy, please feel free to talk to the teacher. We are all here to help!

### **STUDY AIDS**

Please check the course website for lecture notes, homework, and other resources. Students are expected to bring the following to each class:

- Paper/Notebook/Binder, Pen/Pencil, Eraser
- **Calculator – a proper scientific calculator (not using your phone)**