

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

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

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

MY TEACHER \_\_\_\_\_ is available for extra help during the following time \_\_\_\_\_ at the following place\_\_\_\_\_.

## **ATTENDANCE**

- Please arrive 5 minutes before class to get ready.
- If leaving early for any reason, parents must pick you up at the door.
- 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/>. If you can't find the homework online, please contact the school right away.
- 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.
- 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 completing 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.
- 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 in your seat, on time, ready to learn and participate during class.
- Stay on task without disturbing or distracting others. There is no walking around the room.
- Raise your hand if you have any questions or comments and wait to be called.
- **No electronics such as cell phones, laptops, tablets are allowed during lesson.**
- **There is no WIFI for students in Olympiads School.**
- Show respect for yourself, for others, and for the facilities.
- 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 REAL and a GOOD one**