



Website: contoureducation.com.au | Phone: 1800 888 300
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VCE Mathematical Methods ½

Welcome to Contour [0.1]

Workbook

Outline:



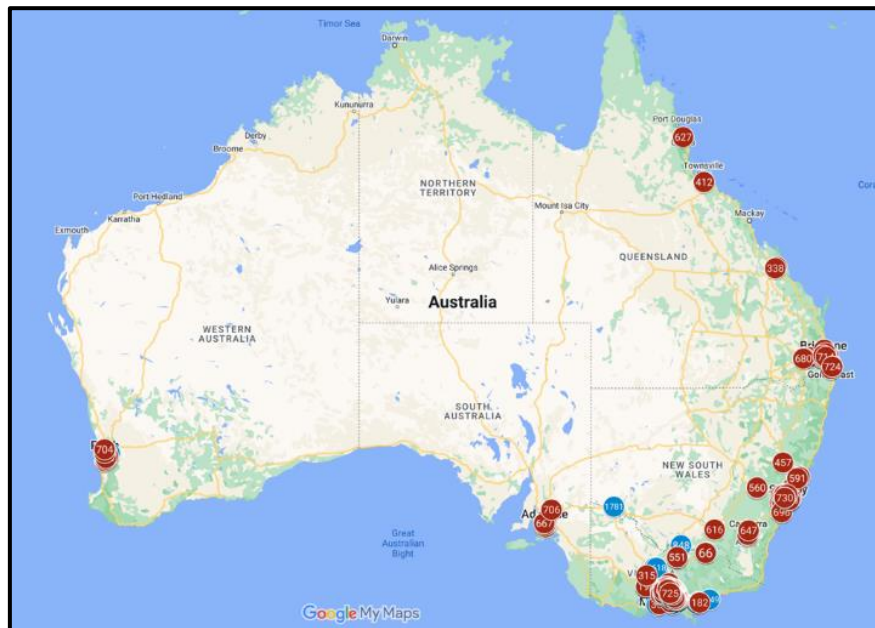
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Section A: Introduction to Contour!

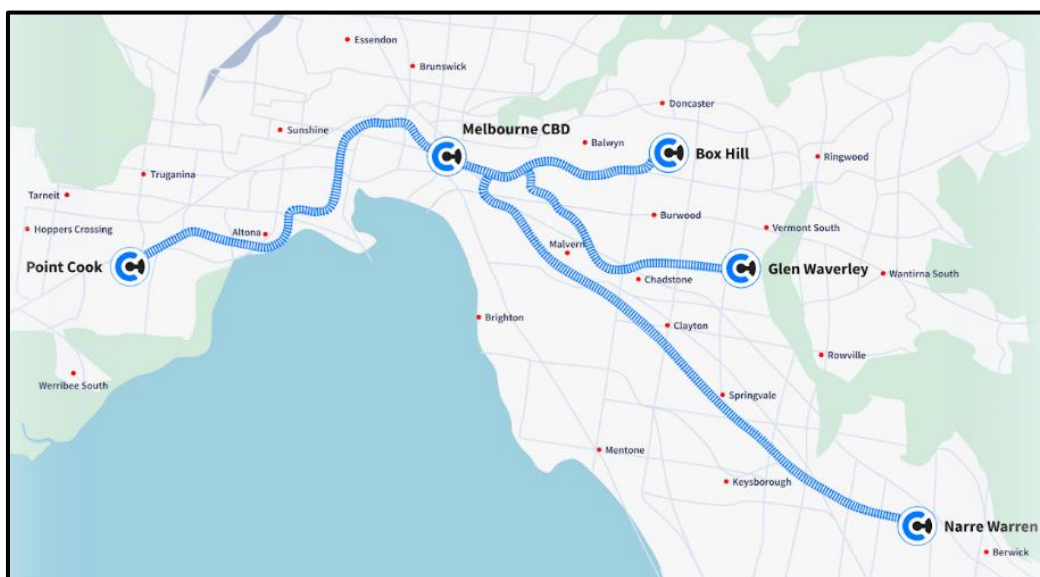
Welcome to Contour!

Our Background and Past Results

- ▶ We're one of the largest and (still) fastest-growing tuition centres in Victoria and Australia.



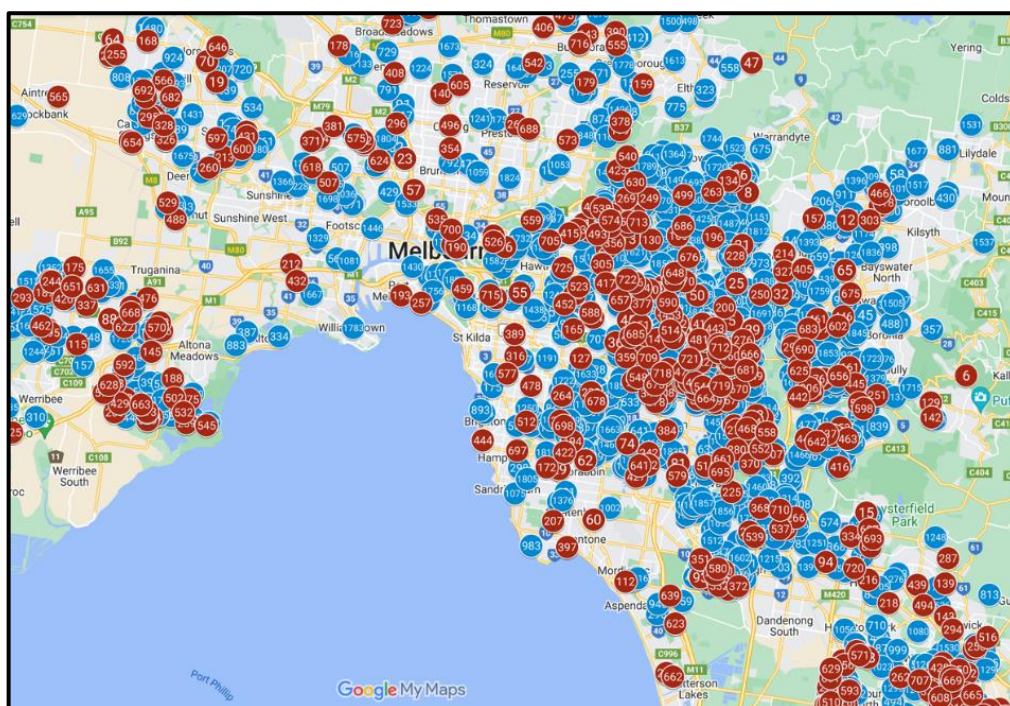
*We've tutored 5,000+ happy students so far, from all over Victoria.
(and even Australia and beyond with our MedPrep programs)!*



*We have three new Contour campuses coming in 2025.
(Our Flagship Melbourne CBD Campus, Narre Warren, and Point Cook!)*



*We're **stoked** to have you join us, and we're looking forward to help you succeed and achieve your goals!*






Every single one of those circles is a Contour student who we've directly impacted!



Just some of our 150+ VCE classes from 2024 😊

➤ How does Contour tutoring work?

-  We specialise in **small group classes**, run by **experienced VCE tutors**.
-  We also offer **heaps of practice material**, our **learning portal**, and **1-on-1 consultations** for help and support.
-  Finally, we emphasise **practice and preparation** for **SACs and exams**.





Recent ATARs at Contour

From Students Across All Our Programs

Jerry (MGS Dux '23)	99.95	Krishav (MHS Dux '23)	99.95	Pranav (HT Dux '23)	99.95	Ramodh (MHS Dux '21)	99.95	Aidin (MHS '23)	99.90	Jineth (MHS '23)	99.90
Rosemary (MGGS Dux '...)	99.90	Chelsea (MGGS Dux '...)	99.90	Anonymous (EDSC Dux '2...)	99.90	Violet (MLC Dux '22)	99.90	Anonymous (School Dux '...)	99.90	Jeffrey (MHS '21)	99.90
Makram (Ilim Dux '21)	99.90	Belle (EDSC Dux '23)	99.85	Cindy (Ruyton '23)	99.85	Deshitha (Haileybury '2...)	99.85	Pranav (MHS '23)	99.85	Anonymous (JMSS '22)	99.85
Abinesh (Nossal '23)	99.80	Chelsea (Hornsby GirL...)	99.80	Sophie W (HT '23)	99.80	Dhruv (Girton Dux '2...)	99.80	Manjot (Wellington D...)	99.80	Hardu (Salesian Dux...)	99.75
Isaac (MHS '23)	99.75	Qiana (JMSS Dux '23)	99.75	Nicholas (HT '22)	99.75	Anonymous (JMSS '22)	99.75	Anupama (Nossal '23)	99.70	Gaia (Mac.Rob '23)	99.70
Will (MHS '23)	99.70	Viran (Girton '23)	99.65	Leroy (MHS '22)	99.65	Tommy (JMSS '22)	99.65	Anonymous (JMSS '22)	99.65	Madelyn (Genazzano ...)	99.60
Melani (Mac.Rob '23)	99.60	Rasith (MHS '23)	99.60	Rohan (HT '23)	99.60	Adya (Mac.Rob '23)	99.55	Moksh (Haileybury '...)	99.50	Aadi (MHS '23)	99.45
Joseph (Caulfield GS...)	99.45	Sydney (Mac.Rob '23)	99.45	Avriel (Ivanhoe '23)	99.40	Danketh (MHS '23)	99.40	Ethan (Haileybury '...)	99.40	Wooshin (MHS '23)	99.40
Will (JMSS '22)	99.40	Sophie J (HT '23)	99.35	Gursimar (MHS '23)	99.30	Justin (Camberwell ...)	99.30	Furqan (Clarendon '2...)	99.30	Tasha (JMSS '21)	99.30
Haoqing (Mac.Rob '23)	99.25	Jacob (King David '2...)	99.25	Kunal (MHS '23)	99.25	Sithuli (Mac.Rob '23)	99.25	Aksharan (Girton '23)	99.15	Ajaay (Emmanuel Du...)	99.15
Angelina (PLC '22)	99.15	Russhil (GWSC '22)	99.15	Evangeline (Mac.Rob '21)	99.15	Angela (Mac.Rob '23)	99.05	Alex (MHS '21)	99.05	Ami (GWSC '23)	99.00
Dhasarathi (MHS '23)	99.00	Nash (MHS '23)	99.00	Kartikay (JMSS '21)	99.00						

1000+
95+ ATARs

250+
98+ ATARs

100%
Student Satisfaction

- Our recent VCE results include dozens of 99.50 + ATAR students and 45 + study scores, including Raw 50s and Premier's Awards in subjects like Methods, Specialist Maths, Chemistry, Physics, etc.

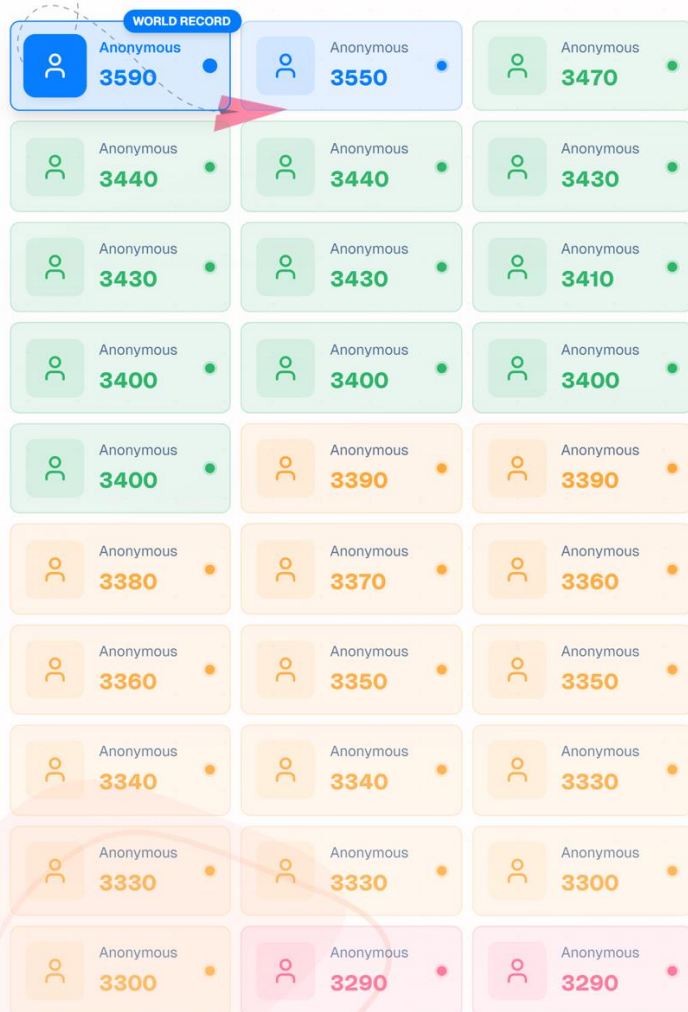
➤ In our **2024 UCAT program**, we had:

- 🏆 A Median UCAT Score of 3060 (90th Percentile),
- 🏆 5 in 10 Contour Students Score Above the 90th Percentile (3060 +), and
- 🏆 1 in 10 Contour Students Score Above the 99th Percentile (3350 +).
- 🏆 Also, a Contour UCAT student scored the world record UCAT score of 3590 in 2023 – The highest in UCAT history [900, 890, 900, 900].



99th Percentile UCAT Results

2023 & 2024 UCAT ANZ Top Scores



99th Percentile Analysis



Score Threshold

3290+

99th Percentile

Average Students

1 in 100

achieve this score

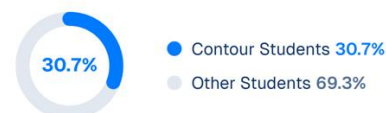
Contour Students

1 in 6

17x higher

Student Distribution

99th Percentile

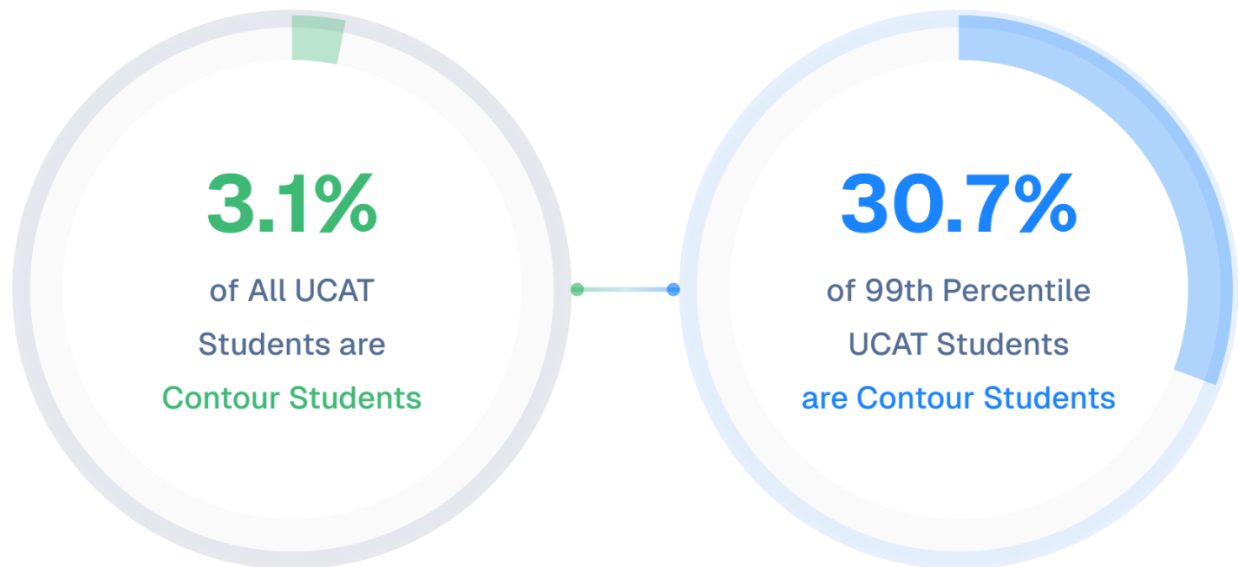


Key Insight

Including the **world record** and representing the **top 1%** of all UCAT test-takers in 2023 & 2024

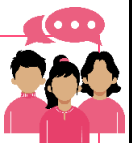
➤ **A Cool Stat:**

- 🇬🇧 14,000 Students sit the UCAT ANZ every year.
- 🇬🇧 That means 140 (1%) scores in the 99th percentile (3350 +).
- 🇬🇧 43 of them (almost one-third) were Contour MedPrep Students!



We've had a fantastic 2024, and now we can't wait to continue supporting you and helping you achieve your potential in 2025 and beyond!

Discussion: Why is it important to know we have high achievers?



What do we stand for?



Discussion: What do you think the word "Contour" stands for?



Contouring Education



➤ Bad education, which some of us have been victims of, is:

Boring education.

Education that does not teach intuitively.

Education that does not work for everybody.

➤ Contour's mission is and will always be to:

Reshape Education, One Student at a Time.

Space for Personal Notes

What does that look like, practically?

Core Values



Core Values



Student Focused

Making sure the student comes first.



Success Driven

Focusing on high performance & achieving success.



Empowering Teaching

Helping students achieve their potential through positive reinforcement and encouragement.



Intuitive Teaching

Building strong foundations through understanding & intuitive learning, not rote memorisation.



Quality Before Quantity

Having one tutor for every dozen students.



Welcoming Community

Having collaboration & camaraderie among peers.



Friendly Tutors & Staff

Being genuine & outgoing personalities.



Continuous Support

Providing complimentary support, accessible anytime & anywhere.



A Study Ecosystem

Providing an arsenal of curated resources to learn & master content.



Premium Service

Upholding a standard of excellent teaching, excellent resources & an excellent experience



Anecdotal Mentorship

Inspiring students through passion, real-life stories and insightful teachings.

But fancy words don't mean anything by themselves!

We are excited to demonstrate our values through our actions in 2025!

Space for Personal Notes

Section B: Contour Ecosystem

Sub-Section: Learning Resources

Contour Resources Structure

Core Resources	Mastery Resources
<ul style="list-style-type: none"> ➤ Workbooks: Completed in class each week. <u>Learn</u> the main content! ➤ Tests: Completed at the end of every class, <u>Consolidate</u> content in class! ➤ Homework (New Structure for 2025): Divided into compulsory and supplementary sections. <u>Consolidate</u> content at home! ➤ Contour Check (New for 2025): Before SACs, clearly show the learning objectives needed and related questions. <u>Prepare</u> for <u>SACs</u>! 	<ul style="list-style-type: none"> ➤ Workshops: Completed in the 2-hour workshop sessions every week. <u>Master content</u> - exposure to tricky questions in SACs and Exams! ➤ SAC Packs (New Structure for 2025): Provided before SAC for practice. <u>Prepare</u> for <u>SACs</u>! ➤ Mock Exams: Run under invigilated conditions to prepare for the final exam! <u>Prepare</u> for the <u>Final Exam</u>! ➤ Exam Packs (New Structure for 2025): Provided before the exams for practice. <u>Prepare</u> for the <u>Final Exam</u>!

Subject Specific Resources

- **ContourUDFs:** Custom calculator functions for Mathematica and TI-Nspire to help you shortcut multiple calculator steps for Tech-Active questions, provided for free for both school SACs and exams for VCE Maths subjects.
- **Bound Reference:** A comprehensive guide of all the content in the study design, sorted by topic. Plus, step-by-step walkthroughs, example problems, and guides for using each calculator (TI-Nspire, Mathematica, and ClassPad) for VCE Maths subjects.
- **Cheat Sheet:** For Physics, a comprehensive double-sided A3 Physics cheat sheet to take into your SACs and exams.

Space for Personal Notes

Discussion: What is the difference between core and mastery resources?



Misconception



"I can do well without the workshops."

Truth: Workshops are crucial in defining your study score! Be sure to never skip them. Attend online or complete in your own time if you can't make a workshop session.

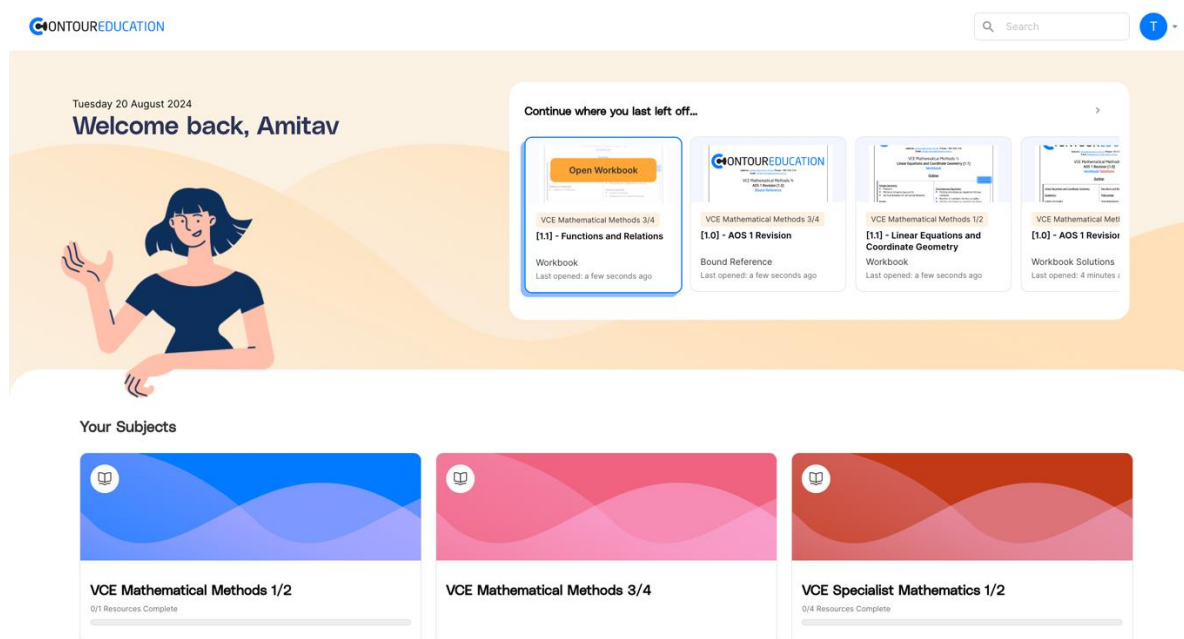
NOTE: Workshop will begin from Week 2 onwards (next weekend) covering content from Week 1 (this week).



Sub-Section: Contour Learning Portal



Discussion: How do I access the resources outside of class?

The screenshot shows the Contour Learning Portal dashboard. At the top, it says "Tuesday 20 August 2024" and "Welcome back, Amitav". Below this is a section titled "Continue where you last left off..." which displays four cards for different resources: "VCE Mathematical Methods 3/4 [1.1] - Functions and Relations Workbook", "VCE Mathematical Methods 3/4 [1.0] - AOS 1 Revision Bound Reference", "VCE Mathematical Methods 1/2 [1.1] - Linear Equations and Coordinate Geometry Workbook", and "VCE Mathematical Methods 1/2 [1.0] - AOS 1 Reviser Workbook Solutions". Below this is a section titled "Your Subjects" which displays three cards: "VCE Mathematical Methods 1/2", "VCE Mathematical Methods 3/4", and "VCE Specialist Mathematics 1/2".

Sub-Section: Student Support



Discussion: How do I contact my tutor outside of class?



Discussion: How do I get extra help outside of class?



Contour Education 1-on-1 Physics Consult

🕒 30 min

What is a 1-on-1 Physics Consult?

- A Live 1-on-1 Consultation run by Contour tutors, which is available to you after-schools on weekdays, and all day on weekends.
- Join for a 30-minute 1-on-1 help session, where you can ask any questions, get further support, clarify your doubts, or even just ask for advice or extend yourself.
- Complimentary service for all enrolled Contour students! We genuinely encourage all of you to use this, and sincerely hope you make the most of the opportunity.

What to Expect

- One of the Contour Physics tutors will be there with you, 1-on-1, to answer

[Cookie settings](#)

[Report abuse](#)

Select a Date & Time

< November 2024 >

MON	TUE	WED	THU	FRI	SAT	SUN
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Wednesday, November 27

• times you're available

• 2:00pm

2:30pm

Next

• 3:00pm

• 3:30pm

Time zone

🌐 Sydney, Melbourne Time (9:42am) ▼

[Troubleshoot](#)

ohhh makes sense

with probability questions do u recommend writing out the info quickly? i find that if i don't i end up making silly mistakes like this


JO


21:35

yep I would recommend that if it's tripping you up

just like a quick

A B % % type thign




 **Pranit P** 10/28/24, 9:44 PM

MCQ 6

- B is a better option because if it's harder to access unemployment benefits people would be even more inclined to find work to be able to have incomes
- Yes that's good
- Hidden unemployment is still spare capacity , it's just not picked up by the statistics

It's people that *do* still want to work but they've just given up finding it

A better distinction is hidden unemployed people are not counted to be within the labour force but underemployed people are

 **Pranit P** 10/28/24, 9:54 PM

Individuals that are not unemployed as they have given up looking for work even though they wish to work, can decreasing the rates quoted for unemployment.

In essence they are underutilised as well but not counted in underutilisation data

Space for Personal Notes

Section C: VCE Methods 1/2 at Contour

AOS

- AOS 1: Linear and Polynomials
- AOS 2: Functions and Relations
- AOS 3: Probability
- AOS 4: Circular Functions
- AOS 5: Exponentials
- AOS 6: Rates of Change
- AOS 7: Calculus
- AOS 8: Further Calculus



Timeline

- We will finish all the content and learn a bit of MM34 content by September.



Assessment

- SACs
- You will be given a Contour Check and SAC packs to prepare for it!



Misconception

"If I learn the content for MM, I'm set."

Truth: It's about the method of applying content and solving difficult questions.

You must ask lots of questions.



Don't stress! At Contour we will cover all types of questions!



Section D: Your Class



Meet Your Tutor(s)



➤ Tutor Name: _____

➤ Preferred Medium of Contact: Discord / Instagram / Facebook / Messenger / Phone / Email

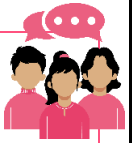
Now your classmates!



Discussion: Say hi to the classmate next to you! What are their names, and what schools do they attend? Exchange a fun fact about them/their favourite activities/something interesting they did last week.



Section E: Goals and Oath



Discussion: Why is it important to have a high goal?

Question 1

Write down your aimed study score below.

REMINDER: I will...



- Work hard throughout the year.
- Use the resources available to the best of my abilities.
- Be honest and reflect on my progress.
- Approach my tutor whenever I have any questions, and
- Have a positive outlook on my studies.

Student Signature

Section F: Post-Class Review

Reminders for Next Week



- ☒ Next week is also part of the **free headstart**. The time will be the **same** (unless confirmed by us).
- ☒ Look out for emails regarding the workshop.

*Give us your feedback; your learning is important to us!
Rip this page and leave it on the table. 😊*



Student Name

How did you find the **PACE** of today's class?

1. Way too slow for me!
2. Slightly slower than ideal for me.
3. Just right!
4. Slightly faster than ideal for me.
5. Way too fast! Slow down, please!

How did you find the **DIFFICULTY** of today's class?

1. Way too difficult!
2. Slightly more challenging than ideal for me.
3. Just right!
4. I can handle a more challenging environment.
5. Way too easy for me!

How did you find the **EXPLANATIONS** of concepts and questions during the class?

1. Impossible to understand.
2. Confusing to understand.
3. Adequate to understand.
4. Straightforward to understand.
5. Intuitive to understand.

What should we **START** doing, **STOP** doing, and **CONTINUE** doing in the tutoring sessions?
Constructive criticism is appreciated - it'll help us improve the classes from next week!

Any additional comments you would like us to know?