#### Subject - Math(Higher Level) Topic - Vector Year - Nov 2011 - Nov 2019

#### Question 1

0.00	(ii) $a - b = a$	4.6	
	$\Longrightarrow (a-b)$	$(a-b)=(a+b)\cdot (a+b)$	(2000)
	$  a  ^2 - 2a \cdot b +   b  ^2 -   a  ^2 + 2a \cdot b +   b  ^2$ $\Rightarrow 4a \cdot b - 0 \Rightarrow a \cdot b = 0$ therefore a and b are perpendicular		.5.1
			-0.7
			Ft.I
	Note: Allow us	se of 2-d components.	

Do not consider sloppy vector notation, so we must see something to the effect that  $\mathbf{eff} = \mathbf{c.c}$  is clearly being used for the SII.

Allow a correct geometric argument, for example that the diagonals of a parallelogram have the same length only if it by in proglimmy liet.

(ii) 
$$a \times b \mid^2 = (|a| |b| \sin \theta)^2 = |a|^2 |b|^2 \sin^2 \theta$$
 MIAI  
 $a \mid^2 b \mid^2 - (a \cdot b)^2 = |a|^2 |b|^2 - |a|^2 |b|^2 \cos^2 \theta$  MI  
 $= |a|^2 |b|^2 (1 - \cos^2 \theta)$  AI  
 $= |a|^2 |b|^2 \sin^2 \theta$   
 $\Rightarrow |a \times b|^2 = |a|^2 |b|^2 - (a \cdot b)^2$  AG

18 marks!

(b) (i) area of triangle 
$$=\frac{1}{2}|AB \times ACI|$$
 (MI) 
$$-\frac{1}{2}|(b-a) \times (c-a)|$$
 AF 
$$=\frac{1}{2}|b \times c + b \times -a + -a \times c + -a \times -a$$
 AF 
$$b \times -a = a \times b ; c \times a = -a \times c ; -a \times -a = 0$$
 MI bence, area of triangle is  $\frac{1}{2}|a \times b + b \times c + c \times a|$  AG

D is the foot of the perpendicular from B to AC area of triangle ABC - TLACIBDI -5.8 therefore. 1 IACHBDI 1 IAB × ACI 341

bence, 
$$|BD| = \frac{|AB \times AC|}{|AC|}$$

$$= \frac{|a \times b - b \times c - c \times a|}{|c - a|}$$
AG

$$-\frac{\|a \times b - b \times c - c \times a\|}{\|c - a\|}$$
AG

[7 marks]

Total [15 marks]

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#### Table of Contents Mathematics Hl Paper Tz24

- 1. Understanding the eBook Mathematics Hl Paper Tz24
  - The Rise of Digital Reading Mathematics Hl Paper Tz24
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Hl Paper Tz24
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematics Hl Paper Tz24
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Hl Paper Tz24
  - Personalized Recommendations

- Mathematics Hl Paper Tz24 User Reviews and Ratings
- Mathematics Hl Paper Tz24 and Bestseller Lists
- 5. Accessing Mathematics Hl Paper Tz24 Free and Paid eBooks
  - Mathematics Hl Paper Tz24 Public Domain eBooks
  - Mathematics Hl Paper Tz24 eBook Subscription Services
  - Mathematics Hl Paper Tz24 Budget-Friendly Options
- 6. Navigating Mathematics Hl Paper Tz24 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Mathematics Hl Paper Tz24 Compatibility with Devices
  - Mathematics Hl Paper Tz24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Hl Paper Tz24
  - Highlighting and Note-Taking Mathematics Hl Paper Tz24
  - Interactive Elements Mathematics Hl Paper Tz24
- 8. Staying Engaged with Mathematics Hl Paper Tz24
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Hl Paper Tz24
- 9. Balancing eBooks and Physical Books Mathematics Hl Paper Tz24
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Hl Paper Tz24
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Hl Paper Tz24
  - Setting Reading Goals Mathematics Hl Paper Tz24
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Hl Paper Tz24
  - $\circ\,$  Fact-Checking eBook Content of Mathematics Hl Paper Tz24

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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