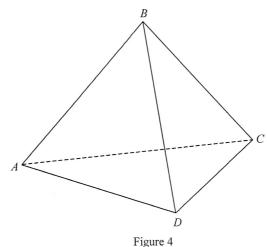
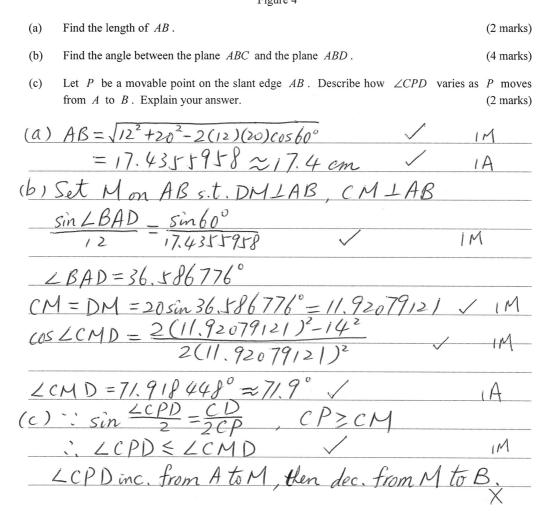
High Performance Paper 1 Section B **Question 18**

StudentBounty.com Figure 4 shows a geometric model *ABCD* in the form of tetrahedron. It is found that $\angle ACB = 60^\circ$, 18. AC = AD = 20 cm, BC = BD = 12 cm and CD = 14 cm.



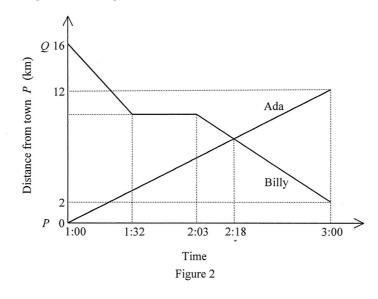


www.StudentBounty.com omework Help & Pastpapers

Mid Performance

Paper 1 Section A(2) Question 12

StudentBounty.com Figure 2 shows the graphs for Ada and Billy running on the same straight road between town P and 12. town Q during the period 1:00 to 3:00 in an afternoon. Ada runs at a constant speed. It is given that town P and town Q are 16 km apart.



(a)	How long does Billy rest during the period?	(2 marks)
(b)	How far from town P do Ada and Billy meet during the period?	(3 marks)
(c)	Use average speed during the period to determine who runs faster. Explain your an (a) fully rest 31 mms.	(2 marks)
	6) The distance from faun P	
	$=\frac{14}{120} \times (60+18)$	-IM
	= 9.1 km X	
(C) Average speed of $Adk = \frac{12}{120} = 0.1 \text{ km/mi}$ Average speed of Billy = $\frac{14}{120} = 0.117 \text{ km}$ > 0.1 km	n VIM an/min Imin
	.: Billy nons faster.	

www.StudentBounty.com Homework Help & Pastpapers

Low Performance Paper 1 Section A(1) Question 1

		Stude
ow Performance aper 1 Section	e A(1) Question 1	StudentBounty.com
Simplify $\frac{(m^5n^7)}{m^4n^7}$	$\frac{2}{3}^{6}$ and express your answer with positive indices.	(3 marks)
	$-\frac{m^{1}n^{4}}{m^{4}n^{3}}$	
	$= m^7 n^3 n^4 \vee$	IM
	$= m^7 n^7 \chi$	