

- 7 (a) (i) $\begin{pmatrix} -9 \\ 4 \end{pmatrix}$
 (ii) $h = -9.5, k = 1.5$

- (b) (i) $\overrightarrow{AC} = \frac{5}{2}\mathbf{b} - \mathbf{a}$
 (ii) $\overrightarrow{XB} = \frac{2}{3}(\mathbf{b} - \mathbf{a})$
 (iii) $\overrightarrow{XY} = \frac{2}{3}\left(\frac{5}{2}\mathbf{b} - \mathbf{a}\right)$

- 8 (a) 1987.5 m^3
 (b) 410 m^2
 (c) 13.6°

- 9 (a) (i) 71.5
 (ii) 43
 (iii) $58\frac{1}{3}\%$
 (iv) More students get merit in Group B than in Group A.
 More students get distinction in Group A than in Group B.
 (b) (i) She should have calculated without replacement.
 (iii) $\frac{12}{25}$

- 10 (a) 100 km \rightarrow 6.3 litres
 92 km \rightarrow 5.8 litres (shown)
 (b) 2.6775 litres
 (c) \$10.80 - \$11.25
 (Any range of answers is acceptable as long as it is reasonable)

Emath Paper 2 Answers Science

**Alberto Isidori, Francoise Lamnabhi-
Lagarrigue, Witold Respondek**



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European Congress of Mathematics Antal Balog, Domokos Szász, András Recski, Gyula Katona, 1998-07-21 This is the second volume of the proceedings of the second European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners Together with volume II it contains a collection of contributions by the invited lecturers Finally volume II also presents reports on some of the Round Table discussions This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician Contributors Vol I N Alon L Ambrosio K Astala R Benedetti Ch Bessenrodt F Bethuel P Björstad E Bolthausen J Brémont A Kupiainen D Burago L Caporaso U Dierkes I Dynnikov L H Eliasson W T Gowers H Hedenmalm A Huber J Kaczorowski J Kollár D O Kramkov A N Shiryaev C Lescop R M Rost Vol II J Matousek D McDuff A S Merkurjev V Milman S Müller T Nowicki E Olivieri E Scoppola V P Platonov J P Schell L Polterovich L Pyber N Simányi J P Solovej A Stipsicz G Tardos J P Tignol A P Veselov E Zuazua

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