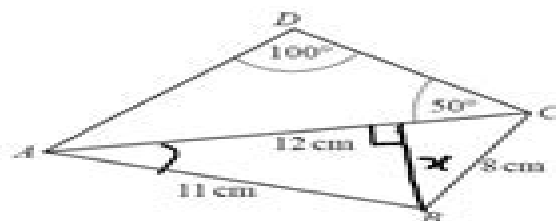


Problem 0580/43/O/N/21 Q6



NOT TO
SCALE

- (a) Calculate AD .

$$\frac{AD}{\sin 50} = \frac{12}{\sin 100}$$

$$AD = \frac{12 \times \sin 50}{\sin 100}$$

$$AD = 9.33 \text{ cm [3]}$$

- (b) Calculate angle BAC and show that it rounds to 40.42° , correct to 2 decimal places.

$$BAC = \cos^{-1} \left[\frac{12^2 + 11^2 - 8^2}{2 \times 12 \times 11} \right]$$

$$= 40.4154 \approx 40.42$$

[4]

- (c) Calculate the area of the quadrilateral $ABCD$.

$$= \frac{1}{2} \times 9.33 \times 12 \times \sin 30 + \frac{1}{2} \times 11 \times 12 \times \sin 40.42$$

$$70.8 \text{ cm}^2 \text{ [3]}$$

- (d) Calculate the shortest distance from B to AC .

$$\sin 40.42 = \frac{x}{11}$$

$$x = 11 \sin 40.42 = 7.13 \text{ cm [3]}$$

Solution Of 0580 43 O N 13

Karin Nielsen-Saines



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objectives **Journal of the Chemical Society** Chemical Society (Great Britain),1914 Titles of chemical papers in British and foreign journals included in Quarterly journal v 1 12 **Dictionary of Chemicals and Raw Products Used in the Manufacture of Paints, Colours, Varnishes and Allied Preparations** George Henry Hurst,1901 **Advances in Computation and Intelligence** Xuesong Yan,2008-12-14 This book constitutes the refereed proceedings of the Third International Symposium on Intelligence Computation and Applications ISICA 2008 held in Wuhan China in December 2008 The 93 revised full papers were carefully reviewed and selected from about 700 submissions The papers are organized in topical sections on computational intelligence evolutionary computation evolutionary multi objective and dynamic optimization evolutionary learning systems neural networks classification and recognition bioinformatics and bioengineering evolutionary data mining and knowledge discovery intelligent GIS and control theory of intelligent computation combinational and numerical optimization as well as real world applications *Quarterly Journal of the Chemical Society of London* Chemical Society (Great Britain),1965 **Cambridge IGCSE® Mathematics Core and Extended Coursebook** Karen Morrison,Nick Hamshaw,2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book "Leather" ,1912

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