

h = perpendicular distance between the two parallel lines

$$\text{Area of the trapezium} = \frac{1}{2} \times h \times (AB + DC)$$

$$31.5 \text{ cm}^2 = \frac{1}{2} \times h \times (7.3 \text{ cm} + 5.3 \text{ cm})$$

$$31.5 \text{ cm}^2 = \frac{1}{2} \times h \times (12.6 \text{ cm}) \quad \text{multiply through by 2}$$

$$2 \times 31.5 \text{ cm}^2 = h \times (12.6 \text{ cm}) \quad \text{Divide}$$

$$\frac{2 \times 31.5 \text{ cm}^2}{12.6 \text{ cm}} = h, \quad h = \frac{63 \text{ cm}^2}{12.6 \text{ cm}} \quad \therefore h = 5 \text{ cm}$$

Hence the perpendicular distance is 5 cm.

c). i) Mean (average) = $(\bar{x})$

$$\bar{x} = \frac{92 + 85 + 65 + x}{4}, \quad \bar{x} = \frac{242 + x}{4}$$

ii) If the mean is less than 80

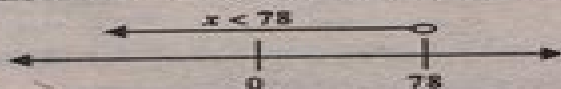
$$\bar{x} < 80 \Rightarrow \frac{242 + x}{4} < 80 \quad \text{multiply through by 4}$$

$$4 \times \frac{242 + x}{4} < 80 \times 4, \Rightarrow 242 + x < 80 \times 4$$

$$242 + x < 320, \quad x < 320 - 242, \quad \therefore x < 78$$

iii) Efe possible marks scored in the test less than 78 or $(x < 78)$ is either 75, 76, 77

The number line for $x < 78$ is shown below



Question 5

a). Solve: $\frac{4x-3}{2} = \frac{8x-10}{8} + 2\frac{3}{4}$

b). Using a scale of 2 cm to 1 unit on both axes, draw two perpendicular lines OX and OY on a graph sheet for the x -axis from -5 to 5 and the y -axis from -6 to 6.

i) Plot the points $A(2, 3)$ and $B(-3, 4)$ and join them with a long straight line.

ii) Plot on the same graph sheet, the points $C(4, 2)$ and $D(-2, -3)$ and join them with a long straight line to meet the line through AB

iii) Measure the angle between the lines through AB and CD

iv) Find the coordinates of the points at which the lines through AB and CD meet

Solution

a) $\frac{4x-3}{2} = \frac{8x-10}{8} + 2\frac{3}{4}$

$$\frac{4x-3}{2} = \frac{8x-10}{8} + \frac{11}{4} \quad \text{multiply through by 8}$$

$$8 \times \frac{4x-3}{2} = 8 \times \frac{8x-10}{8} + 8 \times \frac{11}{4}$$

$$4(4x-3) = 8x-10+2 \times 11$$

$$16x-12 = 8x-10+22$$

$$16x-8x = -10+22+12$$

$$8x = 24, \quad x = \frac{24}{8}, \quad x = 3$$

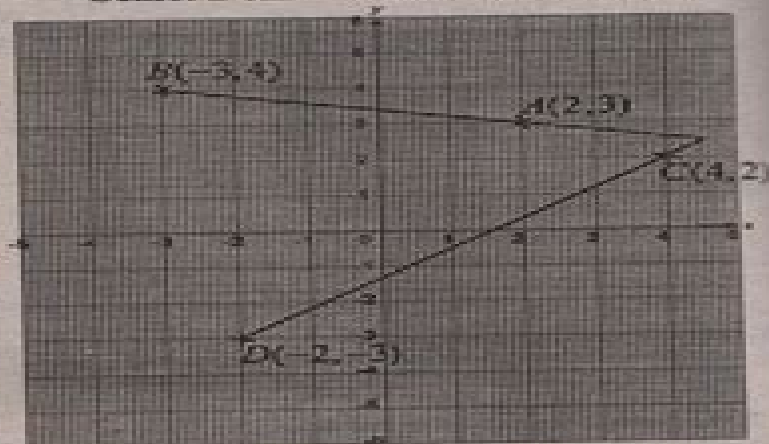
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b) Refer (i) and (ii) from the graph

i) $A(2, 3)$ and $B(-3, 4)$ (ii) $C(4, 2)$ and $D(-2, -3)$

Scale: 2 cm = 1 unit on both axes



iii) The angle between the lines through

AB and CD is 49° or 50° or 51° from the graph.

iv) The coordinates of the points at which the lines through AB and CD meet is $(4.5, 2.5)$

Question 6

The table below shows the frequency distribution of the number of letters in the surnames of some students in a school.

No. of letters	4	5	6	7	8	9	10
No. of students	7	3	2	8	5	3	1

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Learning, Design, and Technology J. Michael Spector, Barbara B. Lockee, Marcus D. Childress, 2023-10-14 The multiple related fields encompassed by this Major Reference Work represent a convergence of issues and topics germane to the rapidly changing segments of knowledge and practice in educational communications and technology at all levels and around the globe There is no other comparable work that is designed not only to gather vital current and evolving information and understandings in these knowledge segments but also to be updated on a continuing basis in order to keep pace with the rapid changes taking place in the relevant fields The Handbook is composed of substantive 5 000 to 15 000 words peer reviewed entries that examine and explicate seminal facets of learning theory research and practice It provides a broad range of relevant topics including significant developments as well as innovative uses of technology that promote learning performance and instruction This work is aimed at researchers designers developers instructors and other professional practitioners

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Sierra Leone International Monetary Fund. African Dept., 2022-07-29 Selected Issues Creative Solutions for a Sustainable Development Yuri Borgianni, Stelian Brad, Denis Cavallucci, Pavel Livotov, 2021-09-15 This book constitutes the refereed proceedings of the 21st International TRIZ Future Conference on Automated Invention for Smart Industries TFC 2021 held virtually in September 2021 and sponsored by IFIP WG 5 4 The 28 full papers and 8 short papers presented were carefully reviewed and selected from 48 submissions They are organized in the following thematic sections inventiveness and TRIZ for sustainable development TRIZ intellectual property and smart technologies TRIZ expansion in breadth and depth TRIZ data processing and artificial intelligence and TRIZ use and divulgation for engineering design and beyond Chapter Domain Analysis with TRIZ to Define an Effective Design for Excellence is available open access under a Creative Commons Attribution 4 0 International License

via link springer com **Sustainable Industrial Engineering along Product-Service Life Cycle/Supply Chain** João Carlos de Oliveira Matias, Susana Garrido Azevedo, Carina Pimentel, 2021-08-25 Sustainable industrial engineering addresses the sustainability issue from economic environmental and social points of view Its application fields are the whole value chain and lifecycle of products services from the development to the end of life stages This book aims to address many of the challenges faced by industrial organizations and supply chains to become more sustainable through reinventing their processes and practices by continuously incorporating sustainability guidelines and practices in their decisions such as circular economy collaboration with suppliers and customers using information technologies and systems tracking their products life cycle using optimization methods to reduce resource use and to apply new management paradigms to help mitigate many of the wastes that exist across organizations and supply chains This book will be of interest to the fast growing body of academics studying and researching sustainability as well as to industry managers involved in sustainability management MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE, Second Edition BATHUL, SHAHNAZ, 2015-10-31 This book in its Second Edition provides the basic concepts and applications of discrete mathematics and graph theory The book is aimed at undergraduate students of computer science and engineering and information technology It is also suitable for undergraduate and postgraduate students of computer science mathematics and computer applications The book exposes the students to fundamental knowledge in Mathematical logic tautology and normal forms Elementary set theory functions and their relations Algebraic structure binary operation group theory and homomorphism Theory of permutations and combinations binomial and multinomial theorems Recurrence relations and methods of solving them Graph theory spanning tree Eulerian and Hamiltonian circuits and isomorphism Key Features Includes a large number of worked out problems for sound understanding of the concepts Offers chapter end exercises to test students comprehension of theory Gives a quiz section at the end of each chapter to help students prepare for the competitive examinations Incorporates short questions asked in universities examinations **Engaging the Next Generation of Aviation Professionals** Suzanne K. Kearns, Timothy J. Mavin, Steven Hodge, 2019-11-08 Engaging the Next Generation of Aviation Professionals is an edited volume that brings together a diverse set of academic and professional perspectives within the three themes of attracting educating and retaining the next generation of aviation professionals NGAP This compilation is the first academic work specifically targeting this critical issue The book presents a rich variety of perspectives academic philosophies and real world examples Submissions include brief case studies longer scholarly works from respected academics and professional reflections from individuals who have made important contributions to their field The book includes academic chapters that explore the topic from a more theoretical standpoint yet are accessible and understandable to a professional audience These are complemented by both broad and specific practice examples that describe initiatives and applications occurring in the industry around the three themes All submissions include descriptive insights experiences

and first hand accounts of accomplishments intended to support the work of other professionals managing NGAP issues This work will be valuable to anyone involved in attracting educating or retaining NGAP including academics operators national and international regulators and outreach coordinators among many others **Austin Hispanic Directory** ,1987

Bulletin signalétique Centre national de la recherche scientifique (France),1976 *Hints on Literature in English with Sample Questions and Answers for Junior Secondary School Pupils* ,2015 Hints on Literature in English with sample questions and answers for Junior Secondary School pupils

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