

**Q14 (a) (1 mark)**

The coordinates of  $R = (6, 17)$

**(b) (i) (4 marks)**

Let  $(h, k)$  be the coordinates of  $P$ .

Since  $P$  lies on  $L$ , we have  $4h + 3k + 50 = 0$ .

$\therefore RP \perp L$

$\therefore m_{RP} \times m_L = -1$

$$\left(\frac{k-17}{h-6}\right) \left(-\frac{4}{3}\right) = -1$$

$$3h - 4k + 50 = 0.$$

Solving, we have  $h = -14$  and  $k = 2$ .

$\therefore P(-14, 2)$

$$PR = \sqrt{(-14-6)^2 + (2-17)^2}$$

$$= 25$$

**(ii) (1) (1 mark)**

$P, Q$  and  $R$  are collinear.

**(2) (3 marks)**

Note that the radius of the  $C$  is 10.

$$QR = 10$$

$$PQ = 25 - 10 = 15$$

The required ratio

$$= PQ:QR$$

$$= 15:10$$

$$= 3:2$$

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**L Towne**



## **Math 22june12 2013:**

*The Math Myth* Andrew Hacker, 2010-05-25 A New York Times bestselling author looks at mathematics education in America when it's worthwhile and when it's not. Why do we inflict a full menu of mathematics algebra geometry trigonometry even calculus on all young Americans regardless of their interests or aptitudes? While Andrew Hacker has been a professor of mathematics himself and extols the glories of the subject, he also questions some widely held assumptions in this thought-provoking and practical-minded book. Does advanced math really broaden our minds? Is mastery of azimuths and asymptotes needed for success in most jobs? Should the entire Common Core syllabus be required of every student? Hacker worries that our nation's current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country. Here he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers. He proposes alternatives including teaching facility with figures quantitative reasoning and understanding statistics. Expanding upon the author's viral New York Times op-ed, *The Math Myth* is sure to spark a heated and needed national conversation not just about mathematics but about the kind of people and society we want to be. Hacker's accessible arguments offer plenty to think about and should serve as a clarion call to students, parents, and educators who decry the one-size-fits-all approach to schooling. Publishers Weekly starred review

**A Lever Long Enough** Robert McCaughey, 2014-06-10 In this comprehensive social history of Columbia University's School of Engineering and Applied Science SEAS, Robert McCaughey combines archival research with oral testimony and contemporary interviews to build both a critical and celebratory portrait of one of the oldest engineering schools in the United States. McCaughey follows the evolving, occasionally rocky and now integrated relationship between SEAS's engineers and the rest of the Columbia University student body, faculty, and administration. He also revisits the interaction between the SEAS staff and the inhabitants and institutions of the City of New York where the school has resided since its founding in 1864. He compares the historical struggles and achievements of the school's engineers with their present-day battles and accomplishments and contrasts their teaching and research approaches to those of their peers at other free-standing and Ivy League engineering schools. What begins as a localized history of a school striving to define itself within a university known for its strengths in the humanities and the social sciences becomes a wider story of the transformation of the applied sciences into a critical component of American technology and education.

**Saving the Wild South** Georgann Eubanks, 2021-10-19 The American South is famous for its astonishingly rich biodiversity. In this book, Georgann Eubanks takes a wondrous trek from Alabama to North Carolina to search out native plants that are endangered and wavering on the edge of erasure. Even as she reveals the intricate beauty and biology of the South's plant life, she also shows how local development and global climate change are threatening many species, some of which have been graduated to the federal list of endangered species. Why should we care? Eubanks asks about North Carolina's Yadkin River goldenrod, found only in one place on earth. Or the Alabama canebrake.

pitcher plant a carnivorous marvel being decimated by criminal poaching and a booming black market. These plants she argues are important not only to the natural environment but also to southern identity and she finds her inspiration in talking with the heroes the botanists advocates and conservationists young and old on a quest to save these green gifts of the South for future generations. These passionate plant lovers caution all of us not to take for granted the sensitive ecosystems that contribute to the region's long standing appeal beauty and character.

**Encyclopedia of Information Science and Technology, Third Edition** Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology. Provided by publisher.

Vision and Visual Perception Duco A. Schreuder, 2014-12-03 Vision is about insight and visual perception is about cognition and they form the foundation of how we see the world. Duco A Schreuder a physicist and psychologist explores the finer details of each in this groundbreaking book that explores human consciousness and perception. Sharing virtually everything he's learned over a varied career spanning more than sixty years he examines a wide array of topics including how we understand what we visually process how we store and retrieve information the role that neurons play in how what we see and much more. While Schreuder isn't afraid to disagree with other leading thinkers he relies on science and focuses on the facts behind it so you can understand lighting visual perception engineering design and applied and experimental physics. Looking is about insight whereas seeing is about knowledge and you need to know how each one works to truly understand how humanity views the world. Whether you're an illuminating engineer considering the fundamentals of the trade or a student or professional in an allied discipline you'll be well served by taking a closer look at Vision and Visual Perception.

*Proceedings of the London Mathematical Society* London Mathematical Society, 1925 Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965

Focus On: 100 Most Popular American Internet Celebrities Wikipedia contributors,

**Marketing and Management Models** Helen Strong, 2014-07-31 Modern business practice especially in the field of marketing depends on the integration of creative and analytical thinking. One of the tools in this process is the use of management models to guide business decisions. However the inherent power of the models is only released when the people applying them have the ability to gather relevant information and interpret the relationships between the variables in the model. This book examines the role of some of the most popular management models and will help you determine when they should be applied. In addition it suggests which models may be relevant and more importantly identifies the type of information needed to implement them and also reduces the complexity of these models through a logical and systematic approach. Models recognize the impact of globalization technology systems thinking and the need for an integrated approach in strategic marketing. You'll find new ones dealing with consumer engagement gamification supply chain management and cultural integration. If you're a student of business and marketing a junior market

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Cook European Timetable ,1993

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