



Problem Solving

Level 3

Circle and Tangent Concepts

1. Two mutually perpendicular secant lines intersect at about 100 degrees. How far apart are the tangents that are tangent to the circle at the points of intersection? (Round to the nearest thousandth.)



2. One angle of $\triangle ABC$ is 100° , and $AB = 20$ centimeters. What is the perimeter of $\triangle ABC$?



3. In the figure, tangents that appear to be tangent to the circle are shown. Find $\angle A$.



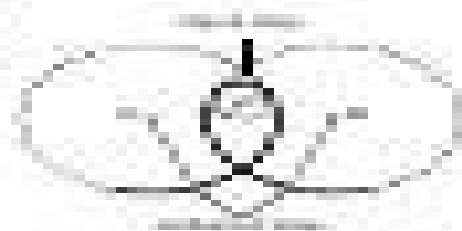
4. $\triangle ABC$ and $\triangle DEF$ are tangent to the circle at M and N .



Circle and Tangent Concepts

5. A tangent line to a circle is perpendicular to the radius at the point of tangency. What is the measure of the angle formed by the tangent line and the radius at the point of tangency? (Round to the nearest degree.)

- (A) 90° (B) 180° (C) 270° (D) 360°



6. $\triangle ABC$ has vertices $A(1, 2)$ and $B(3, 4)$. $\triangle DEF$ has vertices $D(5, 6)$ and $E(7, 8)$. Are the circles that are tangent to the sides AB and DE of the triangles congruent?

- (A) Yes (B) No (C) Not enough information (D) Not enough information

7. Two tangent circles have radii of 3 and 5. What is the distance between the centers of the circles?

- (A) 8 (B) 16 (C) 24 (D) 32

1problem Solving Lines That Intersect Circles

Khattar

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Problems And Solutions In Mathematical Olympiad (High School 2) Shi-xiong Liu,2022-04-08 The series is edited by the head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team

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Problem-Solving Methods in Combinatorics Pablo Soberón,2013-03-20 Every year there is at least one combinatorics problem in each of the major international mathematical olympiads These problems can only be solved with a very high level of wit and creativity This book explains all the problem solving techniques necessary to tackle these problems with clear examples from recent contests It also includes a large problem section for each topic including hints and full solutions so that

the reader can practice the material covered in the book The material will be useful not only to participants in the olympiads and their coaches but also in university courses on combinatorics *Systems, Machines, and Problem-Solving* Henri Stephanou, 2025-10-20 The notion of problem solving has become central to science education and the cognitive sciences but it is still peripheral to many philosophies of knowledge and science In fact the term only became popular in the course of the twentieth century as humanity's ability to solve theoretical and practical problems grew at a seemingly exponential rate This book questions both the nature of problem solving and its effectiveness in transforming our human practices We argue that this is linked to the idea that some of our enquiries can be summarized in systematic procedures Examples are the proof of a theorem within an axiomatic theory a production line within an industrial factory or an administrative procedure within a bureaucratic system Although such a form has been common in mathematics since antiquity it was only in modern times that the possibility of being systematic in the natural sciences and technical disciplines was discovered The emergence of the modern concepts of system and machine was key to this expansion and to the scientific industrial and digital revolutions Problem solving thus appears as the fundamental form of the modern concept of knowledge **The Pearson Guide to Complete Mathematics for AIEEE, 3/e (New Edition)** Khattar, 2010 *Mathematical Problem Solving* ALAN H. SCHOENFELD, 2014-06-28 This book is addressed to people with research interests in the nature of mathematical thinking at any level to people with an interest in higher order thinking skills in any domain and to all mathematics teachers The focal point of the book is a framework for the analysis of complex problem solving behavior That framework is presented in Part One which consists of Chapters 1 through 5 It describes four qualitatively different aspects of complex intellectual activity cognitive resources the body of facts and procedures at one's disposal heuristics rules of thumb for making progress in difficult situations control having to do with the efficiency with which individuals utilize the knowledge at their disposal and belief systems one's perspectives regarding the nature of a discipline and how one goes about working in it Part Two of the book consisting of Chapters 6 through 10 presents a series of empirical studies that flesh out the analytical framework These studies document the ways that competent problem solvers make the most of the knowledge at their disposal They include observations of students indicating some typical roadblocks to success Data taken from students before and after a series of intensive problem solving courses document the kinds of learning that can result from carefully designed instruction Finally observations made in typical high school classrooms serve to indicate some of the sources of students often counterproductive mathematical behavior Adventures in Problem Solving S. Shirali, 2002-10

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