

Question 1:

Draw the common tangents of the circles and tell how many tangents there are.



Question 2:

If  $AB$  is tangent to the circle, find  $x$ .



Solution 2:

Since line  $AB$  is tangent to the circle, it forms a perpendicular to the radius  $AC$ . A right angle triangle is formed. So, we can use Pythagoras's theorem.

$$AC^2 + AB^2 = CB^2$$

Note that the measure of  $CB$  is not entirely marked on the figure (we need to account for the radius of the circle that is not marked). So,  $CB = CD + x$ .

$$3^2 + 4^2 = (CD + x)^2$$

$$25 = x^2 + 2x + 4 \quad \text{[Since } CD = 3 \text{]} \quad \text{[Simplify and rearrange]}$$

$$21 = x^2 + 2x + 4 - 4 \quad \text{[Subtract 4 from both sides]}$$

$$21 = x^2 + 2x \quad \text{[Simplify to form quadratic equation]}$$

$$21 - 21 = x^2 + 2x - 21 \quad \text{[Subtract 21 from both sides]}$$

$$0 = x^2 + 2x - 21$$

[Since  $CD = 3$ ]

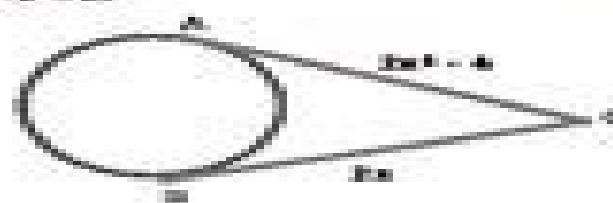
[Subtract 4 from both sides]

[Simplify to form quadratic equation]

[Subtract 21 from both sides]

Question 3:

Given that  $A$ ,  $B$ ,  $C$  are points of tangency. Find  $BC$ .



Solution 3:

By Tangent-Tangent Congruence Theorem,  $AC = BC$ .

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

$$x^2 - x - 3 = 0$$

$$x^2 - x - 3 = 0$$

$$(x - 2)(x + 1) = 0$$

$$x = 2 \text{ or } x = -1$$

Since  $x$  is a length, it cannot be negative. Therefore,  $x = 2$ .

$$BC = 2x$$

$$BC = 2(2)$$

$$BC = 4 \text{ units}$$

[Simplify and rearrange by 2]

[Factor the equation]

[Substitute 0 for the right side]

[Use the zero-product property]

Question 4:

Is it possible for two tangent lines to the same circle to never intersect? Why or why not?

Solution 4:

Yes. The two tangents of the same circle may never intersect if they are parallel. This happens when they are on opposite ends of the circle.



# 1lines That Intersect Circles Answers

**Daniel F McAuley**



## Lines That Intersect Circles Answers:

**Mathematical Questions and Solutions**, 1866      **Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times"**, 1889      *Solutions of the exercises in [H.M.] Taylor's Euclid ... books i-iv (vi-xi)*. William Wilberforce Taylor, 1897      **Mathematical Questions and Solutions, from the "Educational Times."**, 1872      *Mathematical Questions with Their Solutions, from the "Educational Times"...* W. J. C. Miller, D. Biddle, 1872      *Mathematical Questions with Their Solutions*, 1866      **Counting and Configurations** Jiri Herman, Radan Kucera, Jaromir Simsa, 2013-03-14 This book can be seen as a continuation of Equations and Inequalities Elementary Problems and Theorems in Algebra and Number Theory by the same authors and published as the first volume in this book series However it can be independently read or used as a textbook in its own right This book is intended as a text for a problem solving course at the first or second year university level as a text for enrichment classes for talented high school students or for mathematics competition training It can also be used as a source of supplementary material for any course dealing with combinatorics graph theory number theory or geometry or for any of the discrete mathematics courses that are offered at most American and Canadian universities The underlying philosophy of this book is the same as that of Equations and Inequalities The following paragraphs are therefore taken from the preface of that book      *Key to Beman and Smith's Plane and Solid Geometry* Wooster Woodruff Beman, David Eugene Smith, 1896      **Mathematical Questions and Solutions, from the "Educational Times"** W. J. C. Miller, 1866      **Key to Geometry, Book 2: Circles**, 2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs Includes Book 2 of Key to Geometry      **Handbook of Mathematical Induction** David S. Gunderson, 2014-01-09 Handbook of Mathematical Induction Theory and Applications shows how to find and write proofs via mathematical induction This comprehensive book covers the theory the structure of the written proof all standard exercises and hundreds of application examples from nearly every area of mathematics In the first part of the book the author discuss      **Key to Geometry, Book 7: Perpendiculars and Parallels, Chords and Tangents, Circles**, 2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs Includes Book 7 of Key to Geometry      *Application of the Rayleigh-Ritz Method to the Solutions of Partial Differential Equations* Jack Indritz, 1953      **Secondary Mathematics Instruction** Margaret A. Farrell, Walter A. Farmer, 1988      **Discrete Maths and Its**

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**Key for Plane Geometry** Frank Millett Morgan, John Albert Foberg, William Edwin Breckenridge, 1932 *Math Advantage* Grace M. Burton, 1999 *Schaum's Outline of Geometry, 5th Edition* Christopher Thomas, Barnett Rich, 2012-11-16 Tough Test Questions Missed Lectures Not Enough Time Fortunately there's Schaum's. This all in one package includes more than 650 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 25 detailed videos featuring Math instructors who explain how to solve the most commonly tested problems. It's just like having your own virtual tutor. You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 665 fully solved problems. Concise explanations of all geometry concepts. Support for all major textbooks for geometry courses. Fully compatible with your classroom text. Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time and get your best test scores.

Crux Mathematicorum, 1994 Problem-solving journal at the senior secondary and university undergraduate levels for those who practice or teach mathematics. Primarily educational in purpose, it also serves those who read it for professional, cultural, and recreational reasons.

**Schaum's Outline of Geometry, 4ed** Barnett Rich, Christopher Thomas, 2008-08-31 Schaum's has Satisfied Students for 50 Years. Now Schaum's Biggest Sellers are in New Editions. For half a century, more than 40 million students have trusted Schaum's to help them study faster, learn better, and get top grades. Now Schaum's celebrates its 50th birthday with a brand new look, a new format with hundreds of practice problems, and completely updated information to conform to the latest developments in every field of study. Schaum's Outlines Problem Solved. More than 400,000 sold. This review of standard college courses in geometry has been updated to reflect the latest course scope and sequences. The new edition includes an added chapter on Solid Geometry and a chapter on Transformation, plus expanded explanations of particularly difficult topics, as well as many new worked-out

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