

Question 1:

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



Question 2:

If \overline{AB} is tangent to the circle, find x .



Solution 2:

Since line \overline{AB} is tangent to the circle, it forms a perpendicular to the radius \overline{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, $CB = (x) + x$.

$$x^2 + x^2 = (x+x)^2$$

$$2x^2 = x^2 + (x^2 + x^2 + x^2)$$

What other equation?

$$2x^2 = x^2 + 2x^2 + x^2 + x^2$$

$$2x^2 = x^2 + x^2 + x^2 + x^2$$

Subtract $2x^2$ on both sides.

$$2x^2 = 3x^2$$

Subtract x^2 from both sides.

$$x = 10$$

Divide by x on both sides.

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

Divide both sides by x .

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

is a quadratic equation.

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

Use the quadratic formula.

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

Use the quadratic formula.

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

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

$$BC = 3x$$

$$BC = 3(2)$$

$$BC = 6 \text{ units}$$

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.



Lesson 11 1 Lines That Intersect Circles Answers

Gilbert Baumslag



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additional knowledge to students Trend Analysis of past 6 Years 2025 2019 is provided to understand the Question trend

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Methods in Combinatorics Larry Guth, 2016-06-10 This book explains some recent applications of the theory of polynomials and algebraic geometry to combinatorics and other areas of mathematics One of the first results in this story is a short elegant solution of the Kakeya problem for finite fields which was considered a deep and difficult problem in combinatorial geometry The author also discusses in detail various problems in incidence geometry associated to Paul Erdős's famous distinct distances problem in the plane from the 1940s The proof techniques are also connected to error correcting codes Fourier analysis number theory and differential geometry Although the mathematics discussed in the book is deep and far reaching it should be accessible to first and second year graduate students and advanced undergraduates The book contains approximately 100 exercises that further the reader's understanding of the main themes of the book *Inside DesignCAD* Jerry M. Fischer, 1992 Organized for the beginning and experienced DesignCAD user It starts with the basics of 2 D drawing in DesignCAD presents advanced techniques such as drawing in 3 D and ends with customizing DesignCAD *Prentice Hall Informal Geometry* Philip L. Cox, 1992 *Spectrum Critical Thinking for Math, Grade 7* Spectrum, 2017-04-03 Critical Thinking Math Grade 7 Workbook for kids ages 12 Support your child's educational journey with Spectrum's Critical Thinking 7th Grade Math Workbook that teaches critical thinking math skills Critical Thinking Math workbooks are a great way for students to learn critical thinking skills through algebra geometry positive and negative integers and more through a variety of learning activities that are both fun AND educational Why You ll Love This Geometry and Algebra 1 Workbook Engaging and educational math activities Using a number line Adding subtracting multiplying and dividing rational numbers and Using bar graphs are a few of the fun math activities that incorporate critical thinking for kids to help inspire learning into your child's classroom or homeschool curriculum Tracking progress along the way Check what you know and Check what you've learned sections are included at the beginning and end of every chapter A mid test and final test are also included in the Spectrum math book to test student knowledge Use the answer key to track student progress before moving

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Scott, Foresman Geometry: Computer materials ,1990

The Five Practices in Practice [High School] Margaret (Peg) Smith,Michael D. Steele,Miriam Gamoran Sherin,2020-02-26 This book makes the five practices accessible for high school mathematics teachers Teachers will see themselves and their classrooms throughout the book High school mathematics departments and teams can use this book as a framework for engaging professional collaboration I am particularly excited that this book situates the five practices as ambitious and equitable practices Robert Q Berry III NCTM President 2018 2020 Samuel Braley Gray Professor of Mathematics Education University of Virginia Take a deeper dive into understanding the five practices anticipating monitoring selecting sequencing and connecting for facilitating productive mathematical conversations in your high school classrooms and learn to apply them with confidence This follow up to the modern classic 5 Practices for Orchestrating Productive Mathematics Discussions shows the five practices in action in high school classrooms and empowers teachers to be prepared for and overcome the challenges common to orchestrating math discussions The chapters unpack the five practices and guide teachers to a deeper understanding of how to use each practice effectively in an inquiry oriented classroom This book will help you launch meaningful mathematical discussion through Key questions to set learning goals identify high level tasks anticipate student responses and develop targeted assessing and advancing questions that jumpstart productive discussion before class begins Video excerpts from real high school classrooms that vividly illustrate the five practices in action and include built in opportunities for you to consider effective ways to monitor students ideas and successful approaches for selecting sequencing and connecting students ideas during instruction Pause and Consider prompts that help you reflect on an issue and in some cases draw on your own classroom experience prior to reading more about it Linking To Your Own Instruction sections help you implement the five practices with confidence in your own instruction The book and companion website provide an array of resources including planning templates sample lesson plans completed monitoring tools and mathematical tasks Enhance your fluency in the five practices to bring powerful discussions of mathematical concepts to life in your classroom

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