

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,  $CB = (2x+x)$ .

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

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

*Cancel what you can*

$$3x^2 + x^2 = 2x^2 + 4x^2 + x^2 + 4x^2$$

$$4x^2 + x^2 = 4x^2 + 5x^2$$

*Subtract  $4x^2$  on both sides*

$$x^2 = 5x^2$$

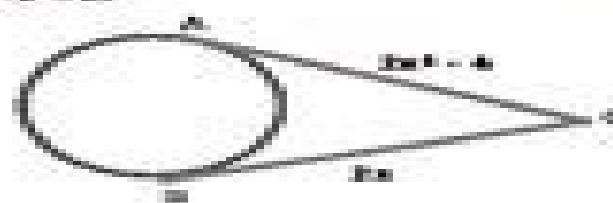
*Subtract  $x^2$  on both sides*

$$x = 5x$$

*Divide  $x$  on both sides*

Question 3:

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



Solution 3:

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

$$2x + 5 = 3x$$

$$x^2 - 3 = x$$

*Subtract 3 on both sides by 3*

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

*is a quadratic equation*

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

*Use formula of 2 terms if  $b \neq 0$*

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

*if  $a = 1$  &  $c \neq 0$*

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

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 11practice Lines That Intersect Circles Key

**Camilla Rothe**



## **Lesson 11practice Lines That Intersect Circles Key:**

**Mathematics** ,1991      **Scientific American** ,1876      **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      *English Mechanic and Mirror of Science and Art* ,1913      **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4** Edm,University of Chicago. School Mathematics Project,2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support      *Addison-Wesley Informal Geometry* ,1992      THE EDUCATIONAL TIMES, AND JOURNAL OF THE COLLEGE OF PRECEPTORS C.F. HODGSON,1871      New York Math: Math A ,2000      **Flying Magazine** ,1944-10      *School Library Journal* ,1986      **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933      British Humanities Index ,2005

## Decoding **Lesson 11practice Lines That Intersect Circles Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lesson 11practice Lines That Intersect Circles Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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