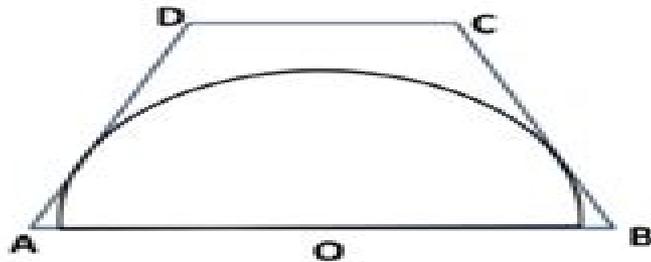


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Question: Given the lengths of the trapezoid \overline{BC} , \overline{AB} , \overline{AD} and \overline{CD} , what is the length of \overline{OF} , \overline{OA} if O is the center of the circle?



Solution 1:

Extend \overline{AD} and \overline{BC} so the two lines intercept at point G . From center O , draw the radius \overline{OF} and \overline{OE} .

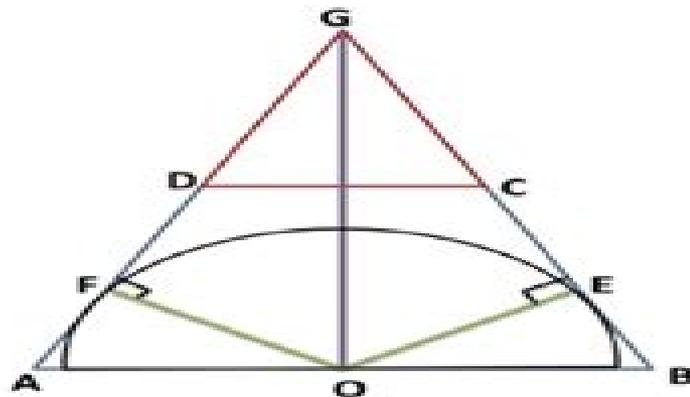
$\overline{OF} = \overline{OE} \rightarrow$ Tangent lines are congruent ; angle $F \cong$ angle E (both 90°) and

$\overline{GO} = \overline{GO}$, so $\triangle GFO \cong \triangle GEO \rightarrow$ right triangle, leg and hypotenuse are congruent.

Thus \overline{GO} bisect angle AGB .

Using angle bisector theorem and $\triangle GDC \sim \triangle GAB$, you can set up the equation

$$\frac{GC}{CE} = \frac{GD}{DF} \rightarrow \overline{OB} = \frac{GD \times BC}{AB} \text{ and } \overline{OA} = \frac{GD \times AD}{BC}$$



Math Counts State Problems

Tao Wei

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

Math Counts State Problems:

Inquiry and Problem Solving, 1999 **Mathcounts State Competition Preparation** Yongcheng Chen, 2015-02-06 The books Volumes 1 to 5 are based the lecture notes from our 2015 Mathcounts State Competition Training Program We have reviewed the manuscripts carefully and some of our students also helped Please email us at mymathcounts gmail com if you see any typos or mistakes or you have a different solution to any of the problems in the book We really appreciate your help in improving the books This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems Volume 3 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-3-dp/1505241383> Volume 4 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-4-dp/1505283493> Volume 5 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-5-dp/1505241413> Articles and Excerpts, Volume 1 AoPS Incorporated, 2006 **ENC Focus**, 1999 Enrichment Activities for Gifted Students Todd Stanley, 2021-09-03 Enrichment Activities for Gifted Students outlines a variety of extracurricular academic activities and programming options for gifted student talent development This book Includes strategies for educators to develop enrichment programs that fit the needs of their students Provides numerous examples of nationally recognized and easy to implement programs and competitions Helps promote students academic growth Categorizes options by subject area including math science technology language arts and social studies Categorizes options by skill type including creative thinking problem solving and adaptability Enrichment Activities for Gifted Students provides everything busy educators need to know about offering funding and supporting enrichment activities and programs that develop students content knowledge and expertise build valuable real world skills and extend learning beyond the walls of the classroom **Mathcounts State Competition Preparation** Yongcheng Chen, Sam Chen, 2015-04-09 This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems **Twenty Mock Mathcounts Sprint Round Tests** Sam Chen, Guiling P. Chen, 2011 This book contains 20 sets of mock Mathcounts Sprint Round problems with the answer keys Each test consists of 30 problems These problems can be used to train students to compete at the Mathcounts State level as well as the National level Solutions can be downloaded free <http://www.mymathcounts.com/Forum/index.php/board/243/0> *State*, 1994-07 *Twenty Mock Mathcounts Target Round Tests* Jane Chen, Yongcheng Chen, 2013-03-24 Jane Chen is the author of the book *The Most Challenging MATHCOUNTS R Problems Solved* published by MATHCOUNTS Foundation The revised edition Jan 5 2014 of the book contains 20 Mathcounts Target Round Tests with the detailed solutions The problems are very similar to real Mathcounts State National competitions *Teaching Mathematics for the 21st Century* Linda Huetinck, Sara N. Munshin, 2008 This third edition of *Teaching Mathematics for the 21st Century* continues to help teachers let the secret out

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