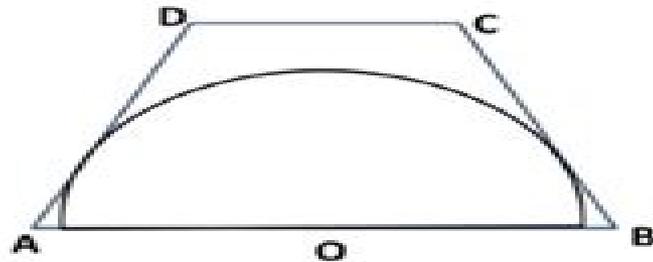


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Question: Given the lengths of the trapezoid  $\overline{BC}$ ,  $\overline{AB}$ ,  $\overline{AD}$  and  $\overline{CD}$ , what is the length of  $\overline{OF}$ ,  $\overline{OA}$  if  $O$  is the center of the circle?



**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  $\overline{OE}$ .

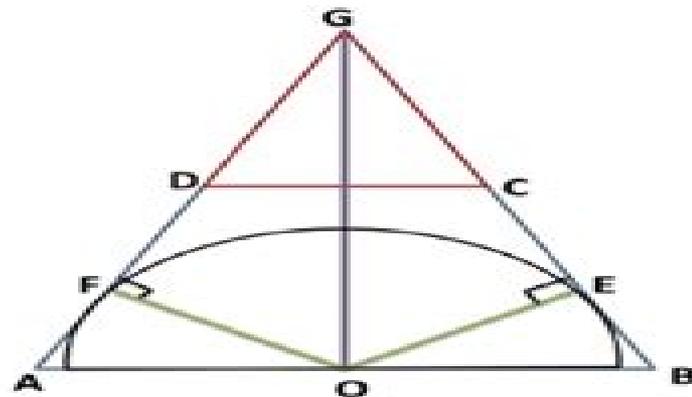
$\overline{OF} = \overline{OE}$  → Tangent lines are congruent ; angle  $F \cong$  angle  $E$  (both  $90^\circ$ ) and

$\overline{OG} = \overline{OG}$ , so  $\triangle GFO \cong \triangle GEO$  → 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

**R Barnett**

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