

Tangents to Circles Homework

For Exercises 1–5, match the letter of the part of the figure to the names. Use each letter once.

1. chord E

A. \overline{AB}

2. tangent B

B. ℓ

3. radius A

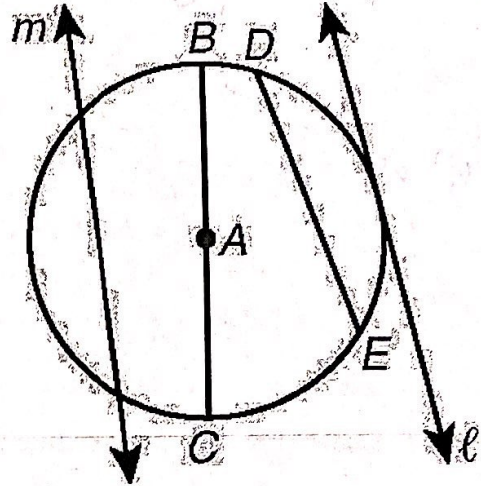
C. m

4. secant C

D. \overline{BC}

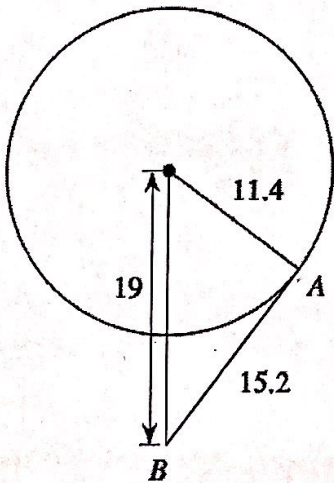
5. diameter D

E. \overline{DE}

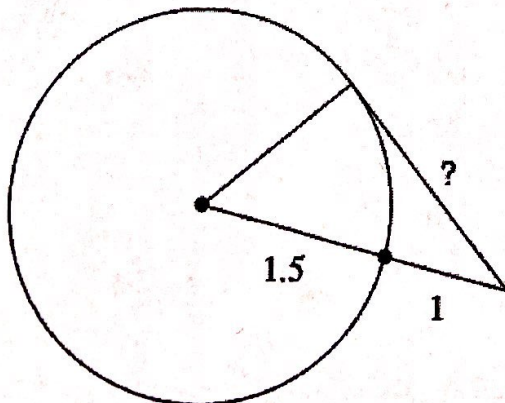


6. Determine if line AB is tangent to the circle. Show your work.

Tangent

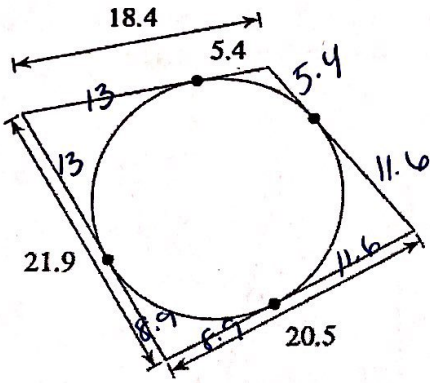


7. Find the segment length indicated. Assume that lines which appear to be tangent are tangent.



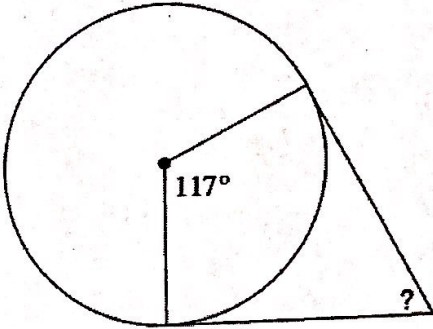
$$x = 2$$

8. Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.



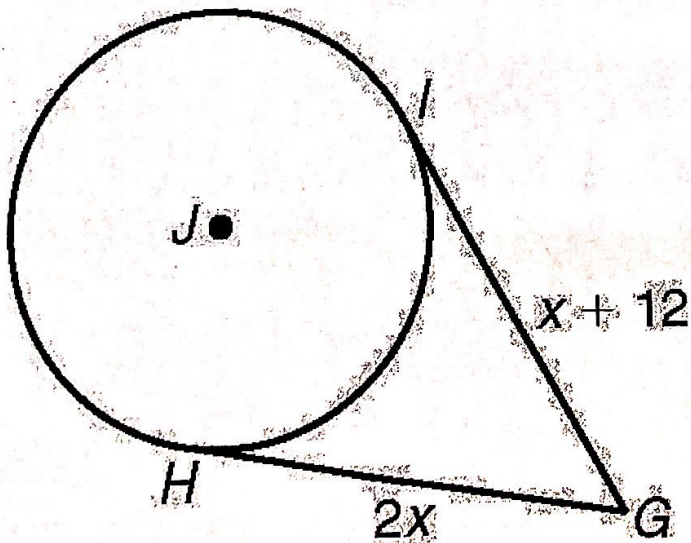
$$P = 77.8$$

9. Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.



$$63^\circ \text{ (Review)}$$

10. \overline{GH} and \overline{GI} are tangent to $\odot J$. Find GH .



$$GH = 24$$