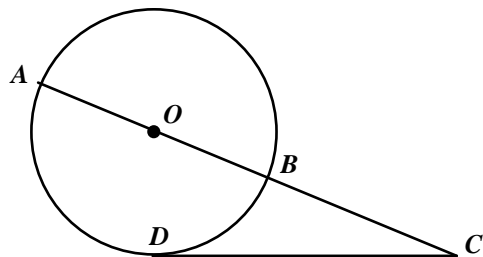


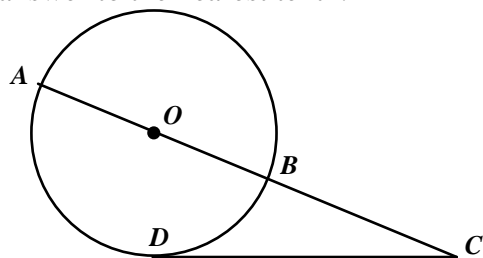
*G.G.53: Investigate, justify, and apply theorems regarding segments intersected by a circle: along two tangents from the same external point; along two secants from the same external point; along a tangent and a secant from the same external point; along two intersecting chords of a given circle*

1. Find the diameter of the circle (not drawn to scale).  $BC = 18$ , and  $DC = 21$ . Round your answer to the nearest tenth.



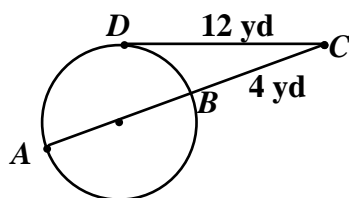
[A] 6.5 [B] 9.2 [C] 5.6 [D] 42.5

2. Find the diameter of the circle (not drawn to scale).  $BC = 12$ , and  $DC = 20$ . Round your answer to the nearest tenth.



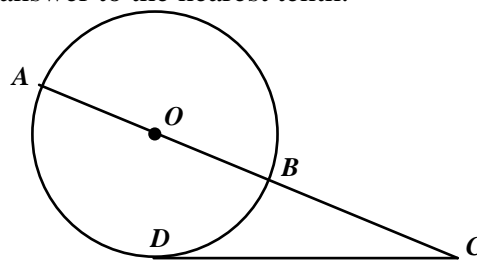
[A] 12.8 [B] 18.6 [C] 21.3 [D] 45.3

3. To find the radius of a circular pond, Maria measured  $\overline{CD}$  and  $\overline{BC}$ . If  $\overline{CD}$  is a tangent, find the radius of the pond.



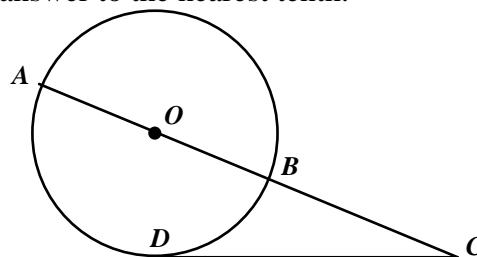
NAME: \_\_\_\_\_

4. Find the diameter of the circle (not drawn to scale).  $BC = 10$ , and  $DC = 16$ . Round your answer to the nearest tenth.



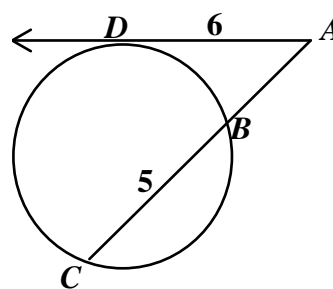
[A] 12.9 [B] 15.6 [C] 35.6 [D] 9.8

5. Find the diameter of the circle (not drawn to scale).  $BC = 17$ , and  $DC = 23$ . Round your answer to the nearest tenth.



[A] 10.4 [B] 16.8 [C] 14.1 [D] 48.1

6. Determine  $AB$ .



[A] 4 or 9 [B] 1 [C] 4  
[D] 1 or 6 [E] none of these

## Geometry Practice: Chords, Secants and Tangents #1

[www.jmap.org](http://www.jmap.org)

[1] A

[2] C

[3] 16 yd

[4] B

[5] C

[6] C