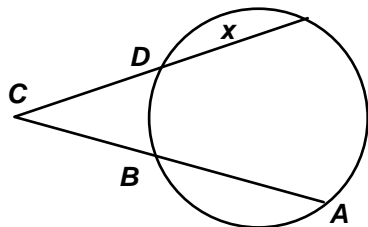


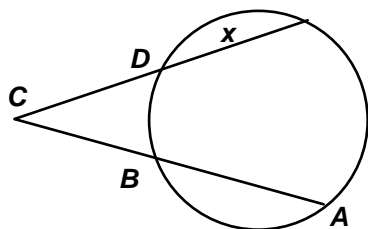
*G.G.53: Investigate, justify, and apply theorems regarding segments intersected by a circle: along two tangents from the same external point; along two secants from the same external point; along a tangent and a secant from the same external point; along two intersecting chords of a given circle*

1. Find the value of  $x$  if  $AB = 17$ ,  $BC = 10$ , and  $CD = 11$ . (not drawn to scale)



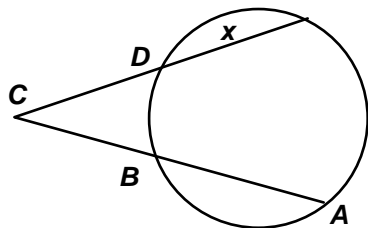
[A] 10.4 [B] 15.1 [C] 15.8 [D] 13.5

2. Find the value of  $x$  if  $AB = 20$ ,  $BC = 8$ , and  $CD = 6$ . (not drawn to scale)



[A] 33.6 [B] 32.9 [C] 31.3 [D] 28.2

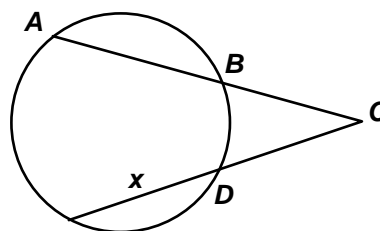
3. Find the value of  $x$  if  $AB = 16$ ,  $BC = 11$ , and  $CD = 9$ . (not drawn to scale)



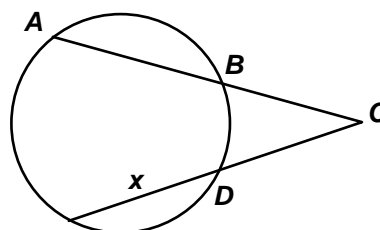
[A] 26.3 [B] 25.6 [C] 24.0 [D] 20.9

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

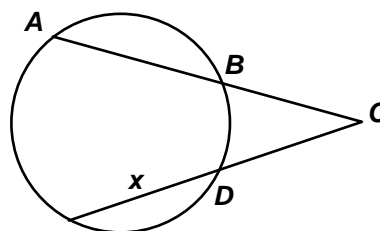
4. Find the value of  $x$  if  $AB = 23$ ,  $BC = 14$ , and  $CD = 13$ . (not drawn to scale)



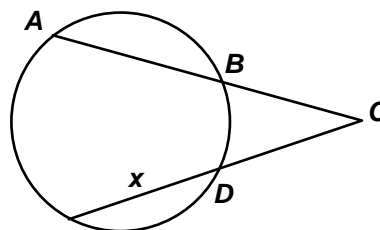
5. Find the value of  $x$  if  $AB = 17$ ,  $BC = 9$ , and  $CD = 10$ . (not drawn to scale)



6. Find the value of  $x$  if  $AB = 16$ ,  $BC = 10$ , and  $CD = 8$ . (not drawn to scale)



7. Find the value of  $x$  if  $AB = 19$ ,  $BC = 12$ , and  $CD = 14$ . (not drawn to scale)



Geometry Practice: G.G.53 #3

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

[1] D

[2] C

[3] C

[4] 26.8

[5] 13.4

[6] 24.5

[7] 12.6