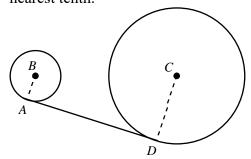
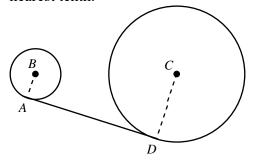
1.  $\overline{AD}$  is tangent to both circles in the figure (not drawn to scale). If BA = 9, AD = 23, and CD = 17, find the length of  $\overline{BC}$  to the nearest tenth.



[A] 32.5 [B] 18.8 [C] 24.7 [D] 24.4

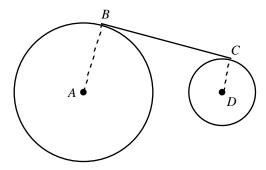
2.  $\overline{AD}$  is tangent to both circles in the figure (not drawn to scale). If BA = 7, AD = 25, and CD = 13, find the length of  $\overline{BC}$  to the nearest tenth.



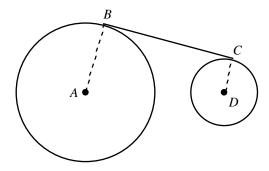
[A] 14.3 [B] 26 [C] 35.4 [D] 25.7

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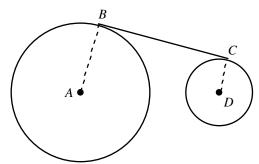
3.  $\overline{BC}$  is tangent to  $\bigcirc A$  at B and to  $\bigcirc D$  at C (not drawn to scale). If AB = 12, BC = 18, and DC = 3, find the length of  $\overline{AD}$ , to the nearest tenth.



4.  $\overline{BC}$  is tangent to  $\bigcirc A$  at B and to  $\bigcirc D$  at C (not drawn to scale). If AB = 10, BC = 16, and DC = 4, find the length of  $\overline{AD}$ , to the nearest tenth.



5.  $\overline{BC}$  is tangent to  $\bigcirc A$  at B and to  $\bigcirc D$  at C (not drawn to scale). If AB = 9, BC = 19, and DC = 3, find the length of  $\overline{AD}$ , to the nearest tenth.



[1]	D
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- [2] D
- [3] 20.1
- [4] 17.1
- [5] 19.9