1. Find the circumference of the circle.



2. Find the circumference to the nearest tenth of a circle with the points (4, 6) and (-2, 9) as the endpoints of a diameter.

[A] 25.32	[B] 21.1
[C] 15.825	[D] 27.43

- Find the coordinates of the center and the radius of the circle with diameter *CD*. *C*(-2, 1), *D*(6, 7)
 - [A] (2, 4), 5 [B] (-4, -3), $3\sqrt{2}$
 - [C] (2, 4), $3\sqrt{3}$ [D] (-4, -3), $2\sqrt{5}$
- Find the coordinates of the center and the radius of the circle with diameter *CD*. *C*(-6, 2), *D*(8, 6)

[A] (1, 4), $\sqrt{55}$ [B] (-7, -2), $\sqrt{15}$

- [C] $(-7, -2), \sqrt{17}$ [D] $(1, 4), \sqrt{53}$
- Find the circumference of a circle to the nearest tenth with the points (-3, 12) and (5, -11) as the endpoints of a diameter.

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- Find the circumference of a circle to the nearest tenth with the points (-10, -10) and (-3, 8) as the endpoints of a diameter.
- Find the center of a circle if one chord has endpoints (-4, 13) and (0, 19) and another has endpoints (8, 5) and (8, 19).
- Find the center of a circle if one chord has endpoints (7, -12) and (11, -6) and another has endpoints (19, -20) and (19, -6).
- 9. A search and rescue team is searching for a child last seen at a grocery store at 2 P.M. It is estimated that she can walk 2 mi/h. It is now 4:30 P.M. Draw a picture of the search area on coordinate axes and find the area they need to search.
- 10. A circular dartboard drawn on a coordinate system consists of three concentric circles centered at (2, -1). The center circle and outer ring are shaded and the middle one is white. If the first circle contains (2, 2), the second contains (2, 5), and the third contains
 (2, 8) what is the probability that a dort

(2, 8), what is the probability that a dart thrown at the dartboard by a blindfolded person will hit the white ring if it hits the dartboard?

[1]	31.4
[2]	<u>B</u>
[3]	<u>A</u>
[4]	<u>D</u>
[5]	76.5
[6]	60.7
[7]	(4, 12)
[8]	(15, -13)
[9]	The search area will be a circle with center (0, 0) and radius 5; the area is 25π or about 78.5 mi ² .
	1

[10] 3