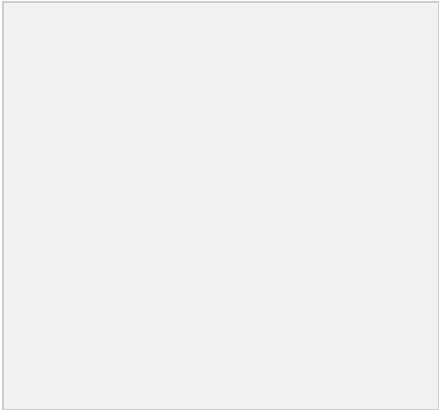


Circles Review

Match the description with the correct label.

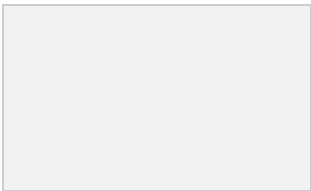


- | | |
|------------------------------|-----------------------|
| 1. $\overline{CD}$ | (a) minor arc |
| 2. $\overline{AD}$ | (b) chord |
| 3. $\overline{CB}$ | (c) tangent |
| 4. $\overleftrightarrow{EF}$ | (d) central angle |
| 5. A | (e) secant |
| 6. D | (f) radius |
| 7. $\angle BAD$ | (g) inscribed angle |
| 8. $\angle BCD$ | (h) center |
| 9. $\widehat{BD}$ | (i) major arc |
| 10. $\widehat{BCD}$ | (j) point of tangency |

2. Two or more circles with the same radii, but different centers, are called ____.

Draw in all common tangents.

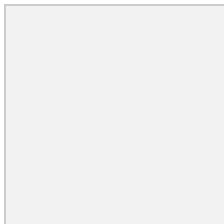
3.



4.



5.



6. Maria has two circles, one with a radius of 5 cm and another with a radius of 9 cm. Find the scale factor between the two circles, the ratio of circumferences and the ratio of area between the two circles.

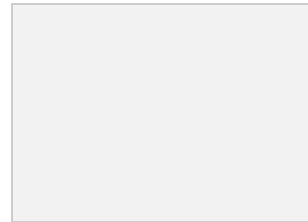
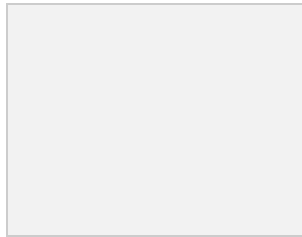
7. The ratio of the radius of circle A to the radius of circle B is $\frac{5}{9}$. What is the ratio of their areas?

Find the value of the indicated length(s) in $\odot C$. A and B are points of tangency.

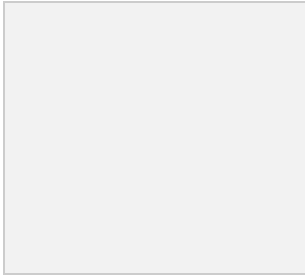
8.

9.

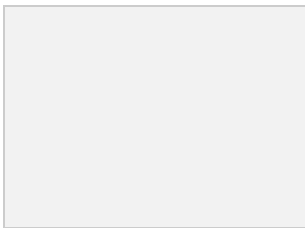
10.



11. Given that points D , E , and F are points of tangency on $\odot G$. Find the perimeter of $\triangle ABC$.

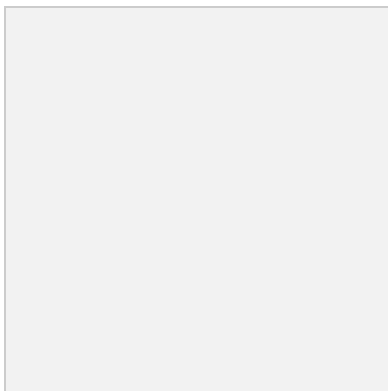


12. Given that BC is tangent to $\odot A$ at point B , and that $AB = 6$ units and $BC = 8$ units, find AC .

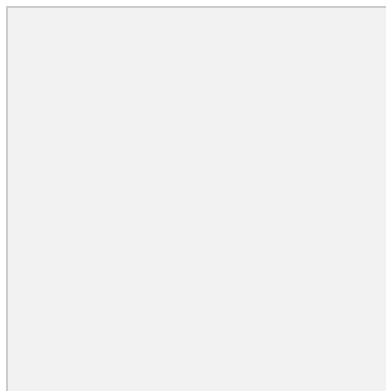


Write the equation of the following circles:

13.



14.



15. A circle with a radius of 6 and a center at $(4, -2)$.

16. A circle with a center: at $(-3, 8)$ and a point on the circle at $(7, -2)$.

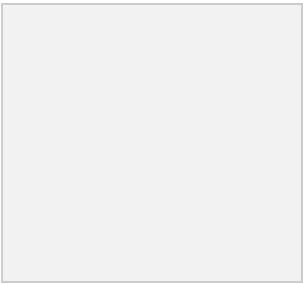
Find the following arc measures:

17. $m\widehat{BD}$

18. $m\widehat{DFC}$

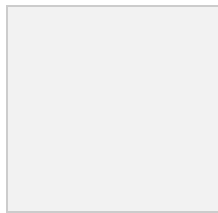
19. $m\widehat{FED}$

20. $m\widehat{CDF}$

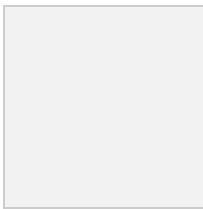


Determine if the blue arcs are congruent. If so, state why.

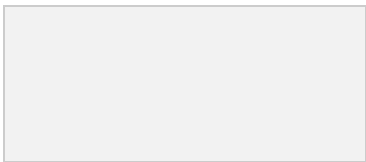
21.



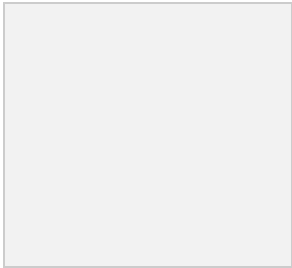
22.



23.

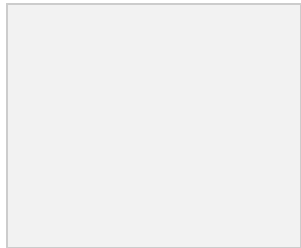


24. Find the radius of the circle:

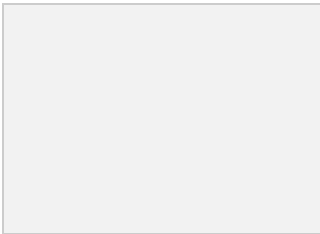


Find the value of x for the circles below.

25.



26.



27. Use $\odot A$ to answer the following.

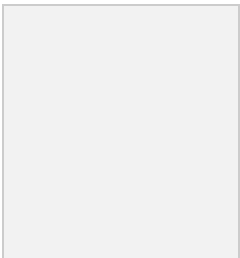


(a) If $m\widehat{BD} = 125^\circ$, find $m\widehat{CD}$.

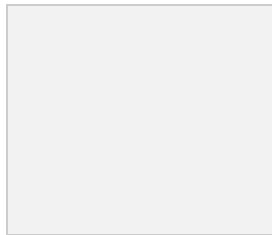
(b) If $m\widehat{BC} = 80^\circ$, find $m\widehat{CD}$.

Find the value of the indicated arc in $\odot A$.

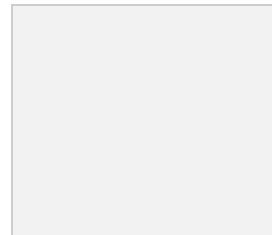
28. Find $m\widehat{CD}$



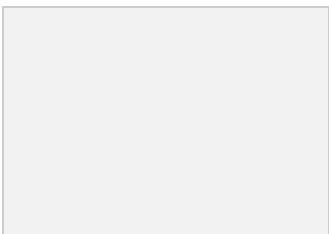
29. Find $m\widehat{BCD}$



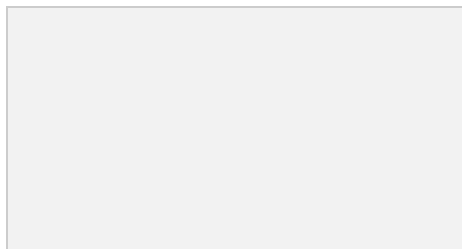
30. Find x and y .



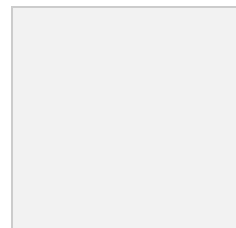
31. Find x .



32. Find $m\widehat{CD}$

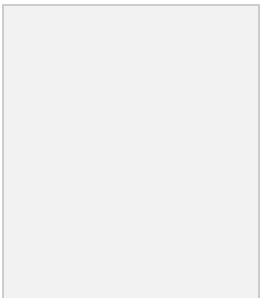


33. If $AB = 5$ & $OC = 6$, find OA .

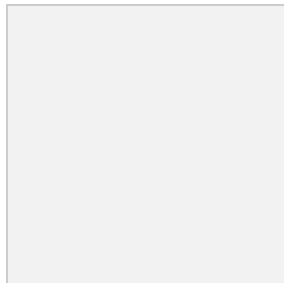


Find the indicated measure:

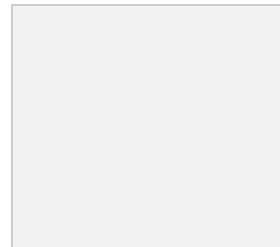
34. Find $m\angle ADB$



35. Find x



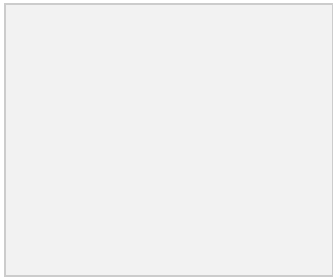
36. Find $m\angle PRQ$



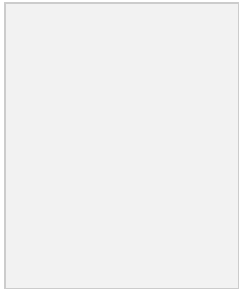
37. Find $m\angle ADB$

38. Find a , b , and c .

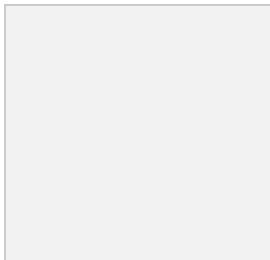
39. Find $m\widehat{BC}$



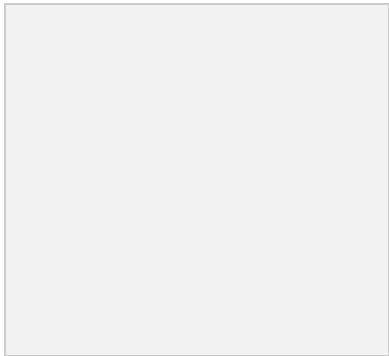
40. Find y .



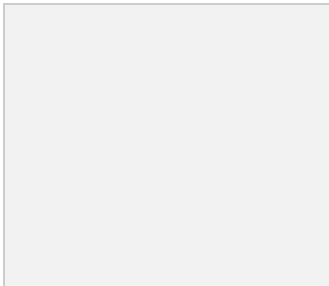
43. Find y .



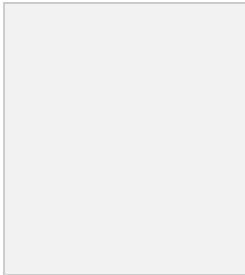
46. Find x .



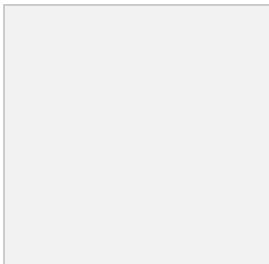
49. Find x .



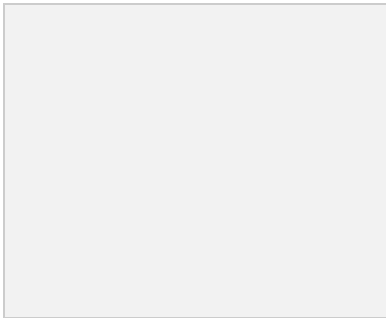
41. Find x .



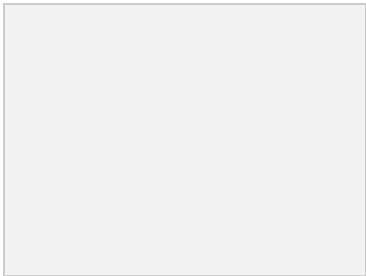
44. Find y .



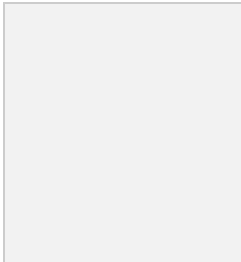
47. Find x .



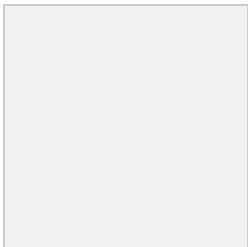
50. Find x .



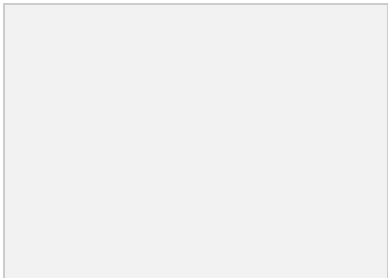
42. Find y .



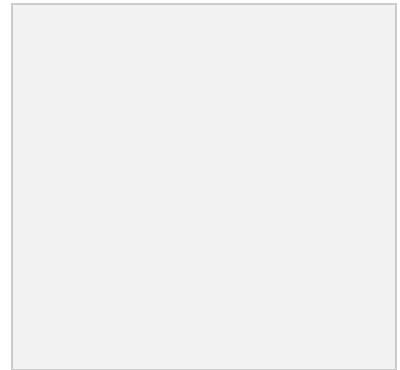
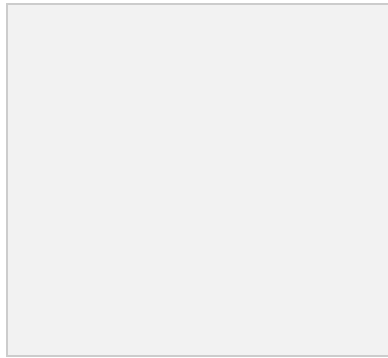
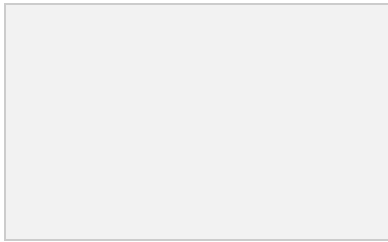
45. Find $m\widehat{BDC}$



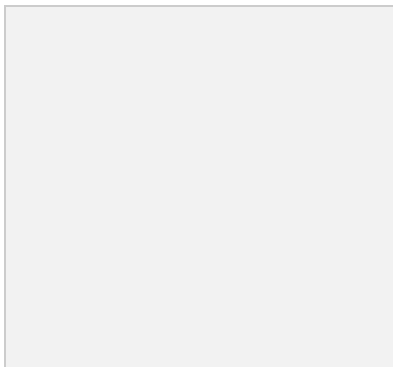
48. Find x .



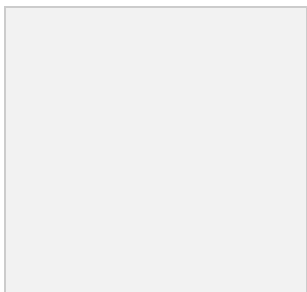
51. Find x and y .



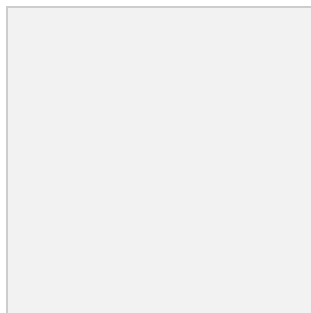
52. In the $\odot A$, $AB = 12$ and $DE = 16$. Find DF , AC , AF , and CF .



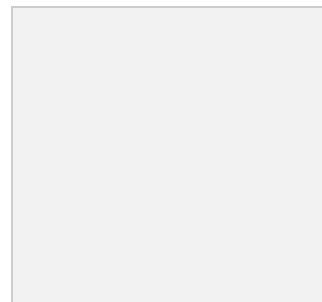
53. Find x .



54. Find PN .



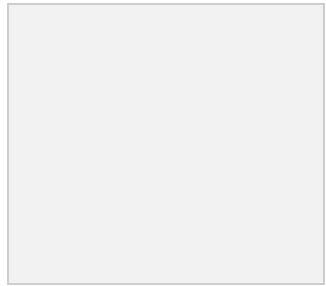
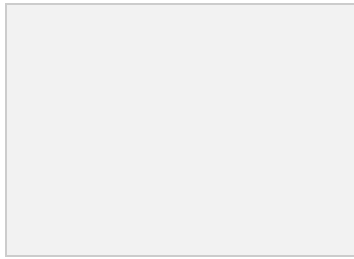
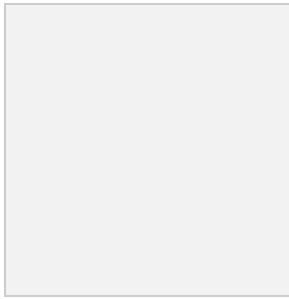
55. Find x .



56. Find x .

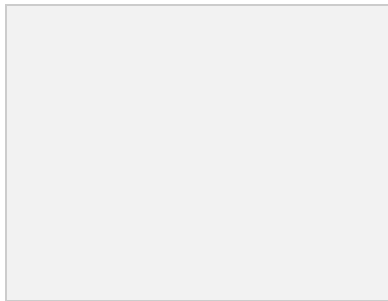
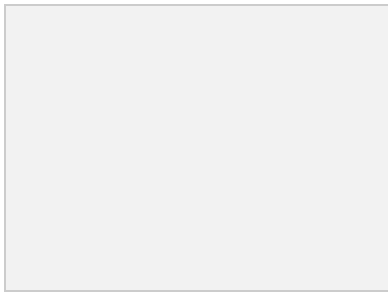
57. Find x .

58. Find x .



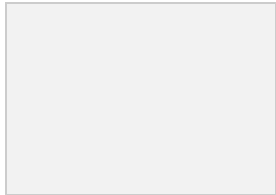
59. Find x .

60. Find x .



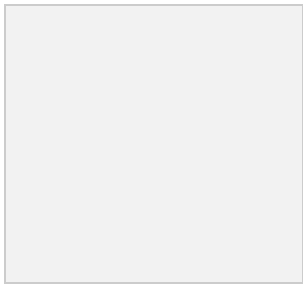
61. Find the circumference and area of a circle with a diameter of 11 cm.

62. Find the perimeter of the figure below.



63. If the circumference of a circle is 22.6 cm, find the radius.

64. If the length of $\overline{HE}$ is 28.4 cm. Find the radius of the circle.



65. Find the area of the shaded region.

66. Find the area of the shaded region.

67. If the area of the shaded region is 134 in^2 .

