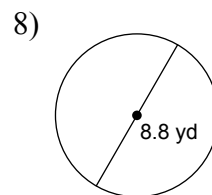
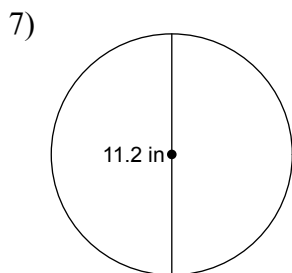
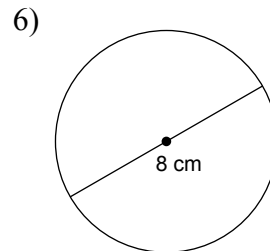
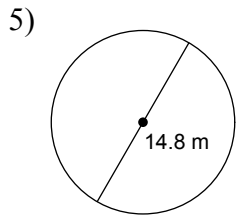
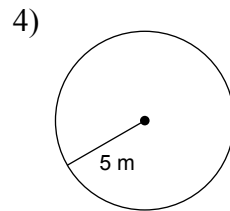
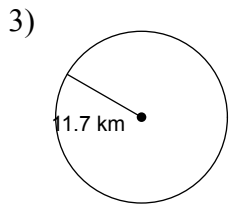
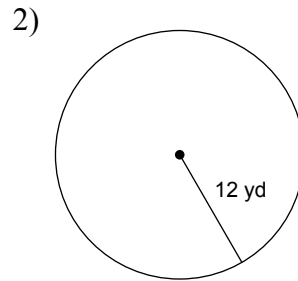
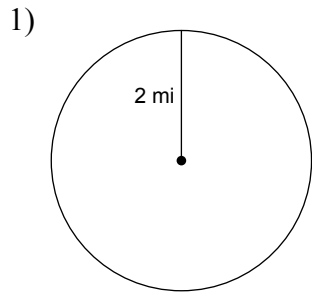
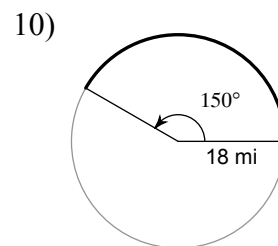
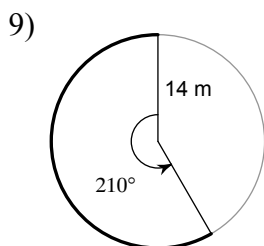


Chapter 10: Circles

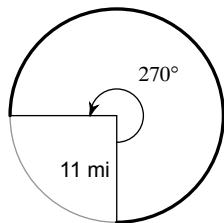
Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.



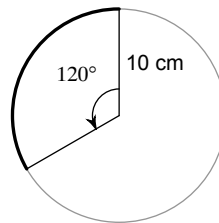
Find the length of each arc.



11)



12)



Find the radius of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

13) circumference = 60.3 yd

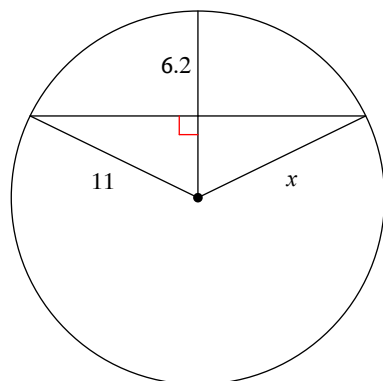
14) circumference = 69.1 km

15) circumference = 47.8 m

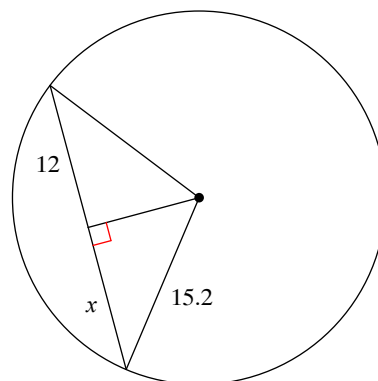
16) circumference = 56.5 m

Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

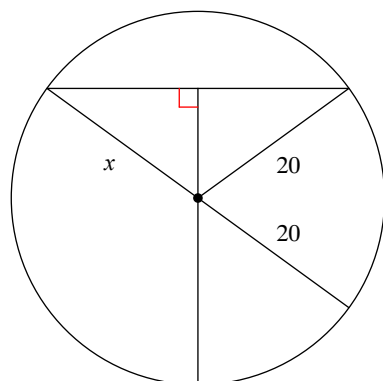
17)



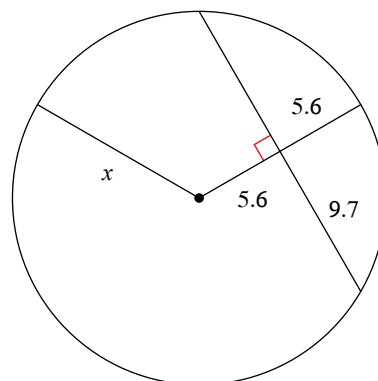
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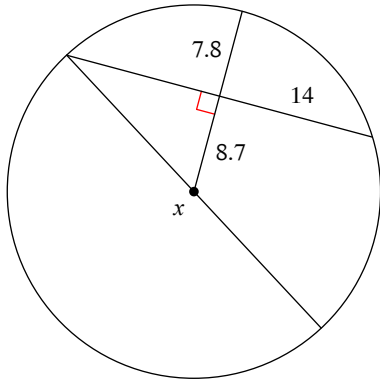
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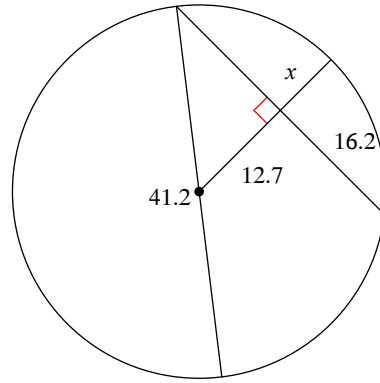
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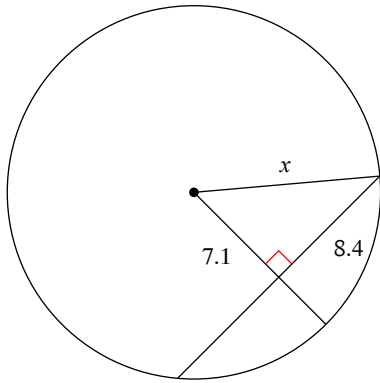
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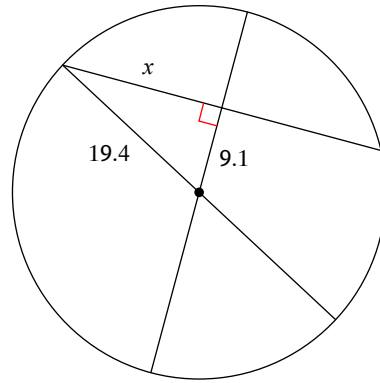
22)



23)

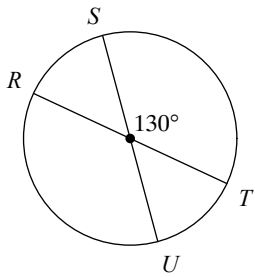


24)

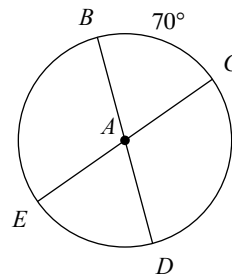


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

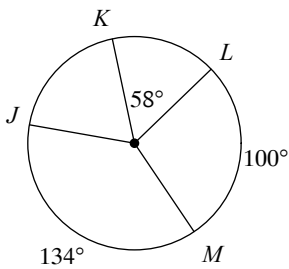
25) $m\widehat{RS}$



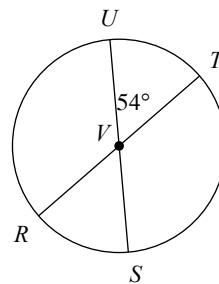
26) $m\angle DAE$



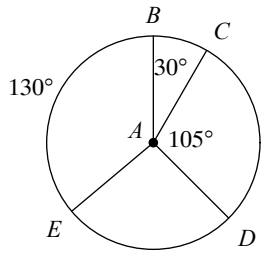
27) $m\widehat{JK}$



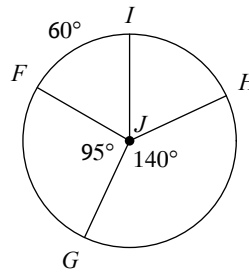
28) $m\angle TVS$



29) $m\angle EAC$

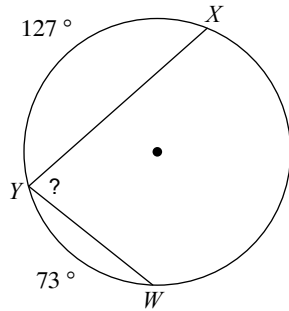


30) $m\angle GJI$

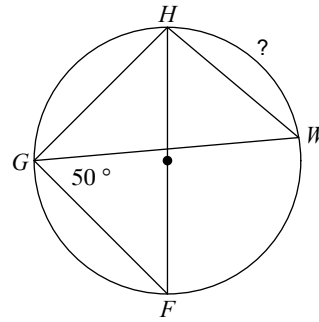


Find the measure of the arc or angle indicated.

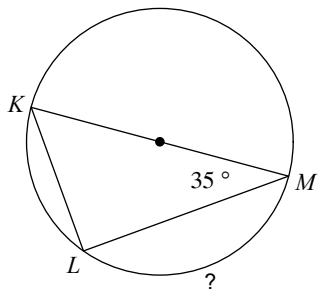
31)



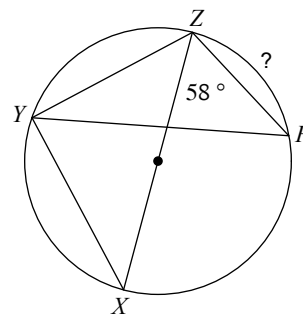
32)



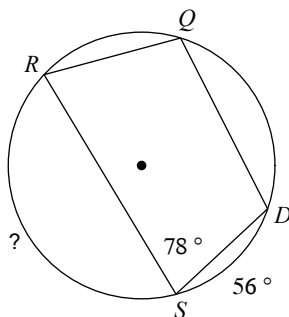
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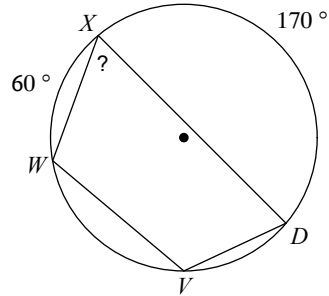
34)



35)

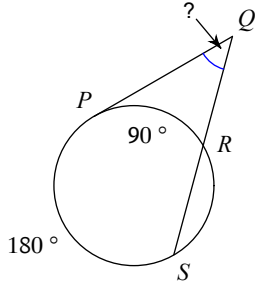


36)

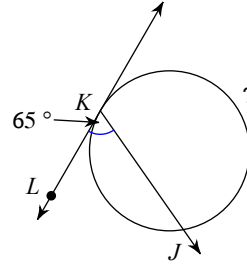


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

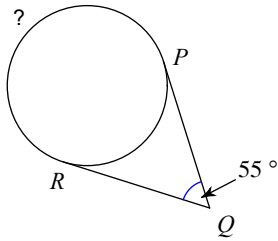
37)



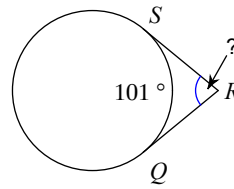
38)



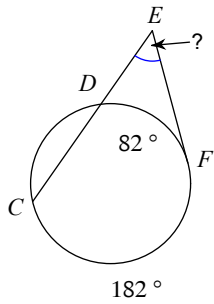
39)



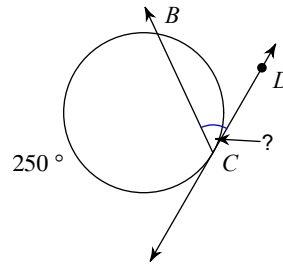
40)



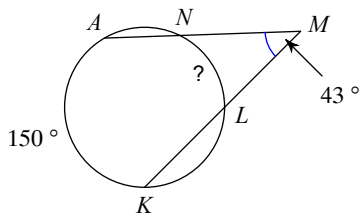
41)



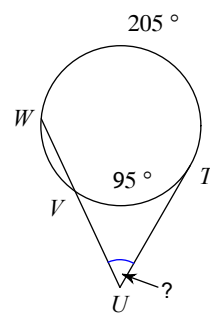
42)



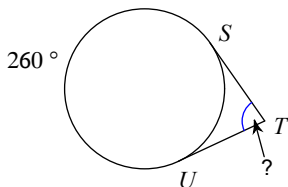
43)



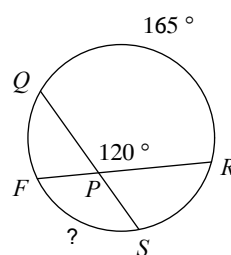
44)



45)

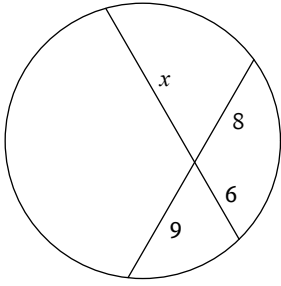


46)

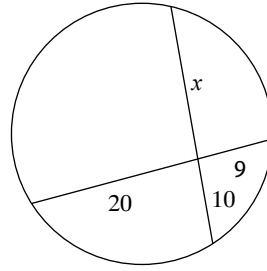


Solve for x . Assume that lines which appear tangent are tangent.

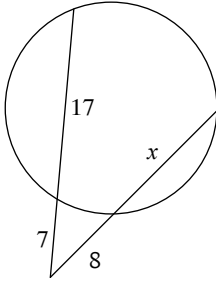
47)



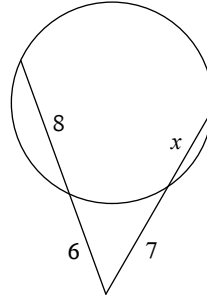
48)



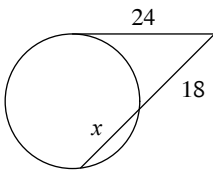
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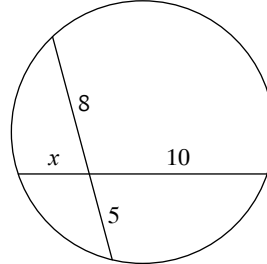
50)



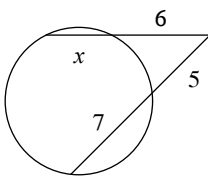
51)



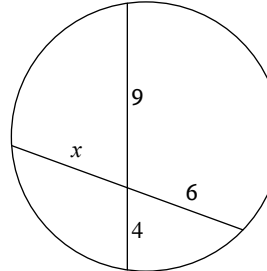
52)



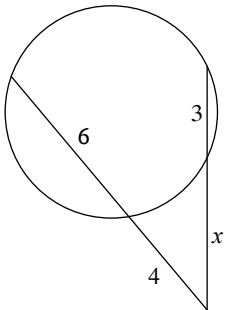
53)



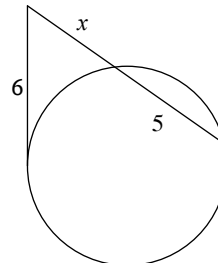
54)



55)

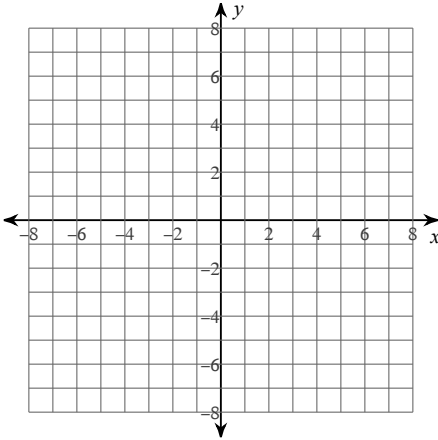


56)

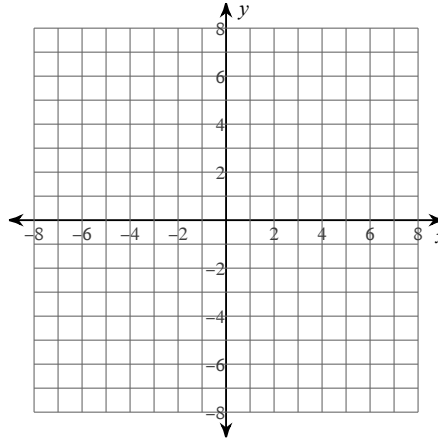


Identify the center and radius of each. Then sketch the graph.

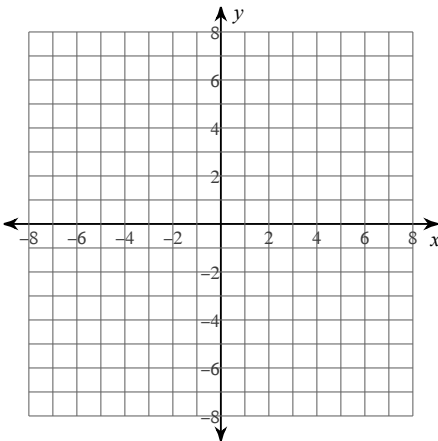
57) $(x - 1)^2 + y^2 = 16$



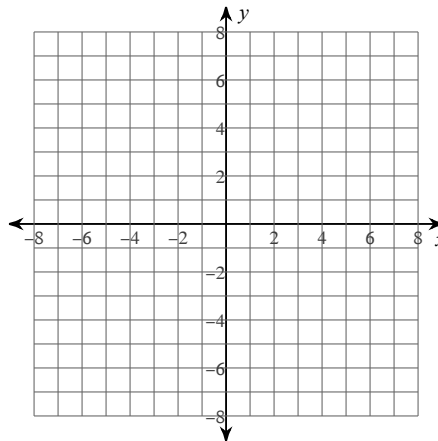
58) $x^2 + (y - 1)^2 = 9$



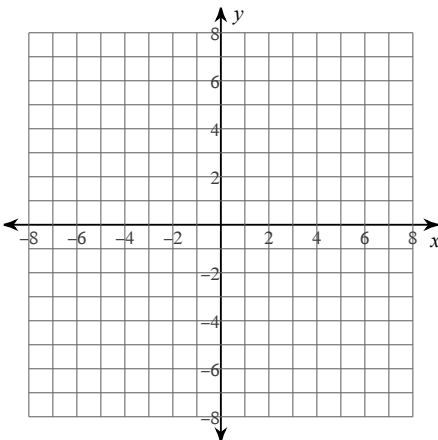
59) $(x - 2)^2 + y^2 = 7$



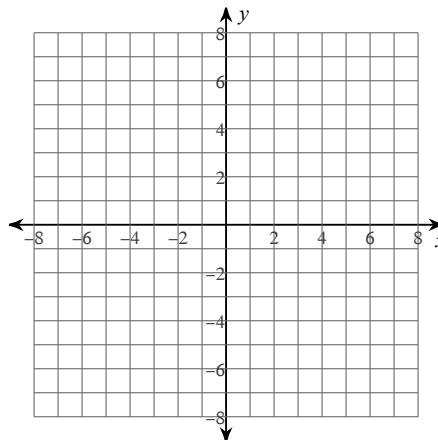
60) $(x - 4)^2 + y^2 = 4$



61) $(x - 3)^2 + (y + 4)^2 = 9$



62) $x^2 + (y + 4)^2 = 1$



Use the information provided to write the equation of each circle.

63) Center: $(2, -3)$
Radius: 11

64) Center: $(7, -3)$
Radius: 6

65) Center: $(3, 4)$
Radius: 11

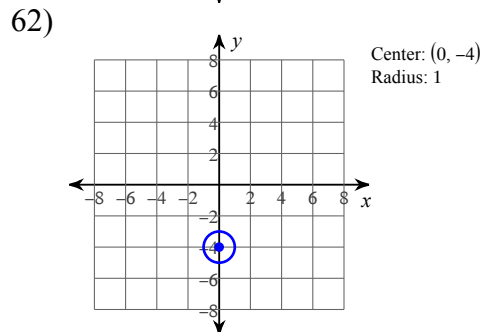
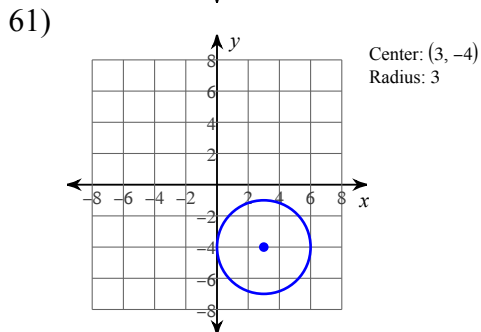
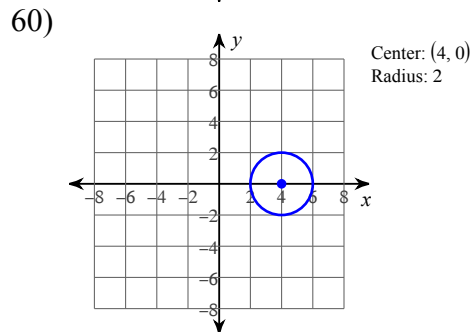
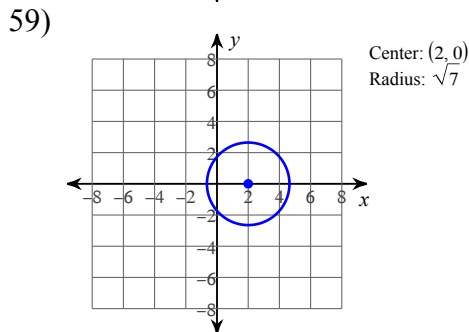
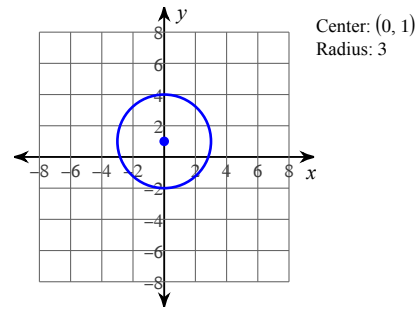
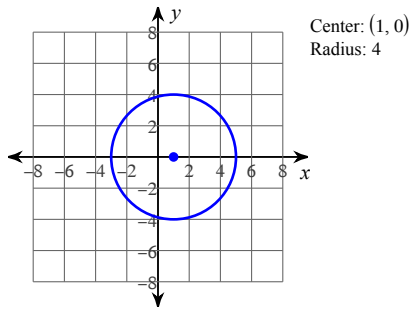
66) Center: $(11, -14)$
Radius: 3

67) Center: $(-2, 14)$
Radius: 2

68) Center: $(-3, 9)$
Radius: 6

Answers to Chapter 10: Circles (ID: 2)

- | | | | |
|------------------------|-----------------|--------------------------|--------------------------|
| 1) 12.6 mi | 2) 75.4 yd | 3) 73.5 km | 4) 31.4 m |
| 5) 46.5 m | 6) 25.1 cm | 7) 35.2 in | 8) 27.6 yd |
| 9) $\frac{49\pi}{3}$ m | 10) 15π mi | 11) $\frac{33\pi}{2}$ mi | 12) $\frac{20\pi}{3}$ cm |
| 13) 9.6 yd | 14) 11 km | 15) 7.6 m | 16) 9 m |
| 17) 11 | 18) 12 | 19) 20 | 20) 11.2 |
| 21) 33 | 22) 7.9 | 23) 11 | 24) 17.1 |
| 25) 50° | 26) 70° | 27) 68° | 28) 126° |
| 29) 160° | 30) 155° | 31) 80° | 32) 80° |
| 33) 110° | 34) 64° | 35) 148° | 36) 65° |
| 37) 45° | 38) 230° | 39) 235° | 40) 79° |
| 41) 50° | 42) 55° | 43) 64° | 44) 55° |
| 45) 80° | 46) 75° | 47) 12 | 48) 18 |
| 49) 13 | 50) 5 | 51) 14 | 52) 4 |
| 53) 4 | 54) 6 | 55) 5 | 56) 4 |
| 57) | | 58) | |



63) $(x - 2)^2 + (y + 3)^2 = 121$

64) $(x - 7)^2 + (y + 3)^2 = 36$

65) $(x - 3)^2 + (y - 4)^2 = 121$

66) $(x - 11)^2 + (y + 14)^2 = 9$

67) $(x + 2)^2 + (y - 14)^2 = 4$

68) $(x + 3)^2 + (y - 9)^2 = 36$