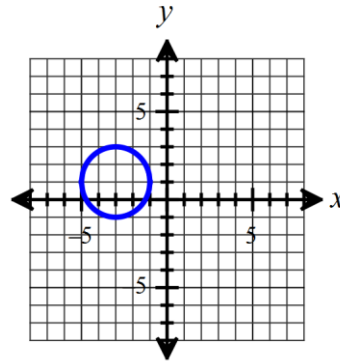


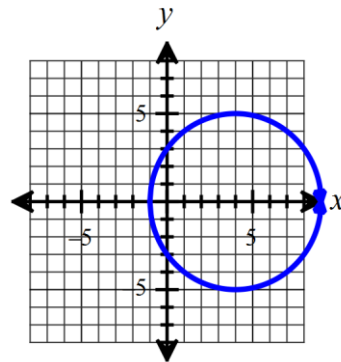
SM2 Unit 12 test review answers

1. \overline{MJ} , \overline{BE} , or \overline{GD}
2. \overline{BE}
3. \overline{GD}
4. \overline{AC}
5. \overline{GK} , \overline{DK} , or \overline{HK}
6. 35° , minor
7. 145° , minor
8. 215° , major
9. 53° , minor
10. $x = 132^\circ$
11. $x = 26^\circ$
12. $x = 54.5^\circ$
13. $x = 42^\circ$
14. $x = 63^\circ$
15. $x = 51^\circ$
16. $x = 96^\circ, y = 84^\circ$
17. $x = 90^\circ, y = 28^\circ$
18. $x = 100^\circ$
19. $x = 4$
20. $x = 15$
21. \overline{AB} is tangent to the circle
22. \overline{AB} is not tangent to the circle
23. 18.4 cm
24. 29.3 ft
25. $54\pi \text{ mi}^2$
26. $\frac{135}{2}\pi \text{ mi}^2$ or $67.5\pi \text{ mi}^2$
27. $x = 12$
28. $x = 7$
29. $x = 4$
30. $x = 7$
31. $x = 6$

32. $x^2 + y^2 = 3$
33. $(x + 3)^2 + (y + 8)^2 = 36$
34. center: $(4, -1)$, radius: 1
 $(x - 4)^2 + (y + 1)^2 = 1$
35. center: $(-1, 2)$, radius: 3
 $(x + 1)^2 + (y - 2)^2 = 9$
36. center: $(-3, 1)$, radius: 2



37. center: $(4, 0)$, radius: 5



38. 2714.34 cubic feet
39. 1526.81 cubic yards
40. 144 cubic kilometers
41. 400 cubic miles
42. 363 cubic yards
43. 113.10 cubic kilometers