

Honors Geometry Unit 9 Review Answers

1. G
2. H
3. C
4. E
5. F
6. A
7. B
8. D
9. $C = 16\pi \text{ in}, A = 64\pi \text{ in}^2$
10. $C = 9\pi \text{ km},$
 $A = 20.25\pi \text{ km}^2$
11. $\frac{119\pi}{6}$ meters
12. $\frac{11\pi}{4} \text{ km}$
13. 18 mi
14. 335.59°
15. $\widehat{SUW} = 293^\circ$
16. $\widehat{CD} = 153^\circ$
17. $x = -11$
18. $x = 7$
19. $x = 11$
20. $x = 1$
21. $x = 6$
22. $x = 11$
23. $\widehat{NML} = 124^\circ$
24. $\widehat{ACB} = 210^\circ$
25. Yes, it's tangent
26. $x = 8$
27. $\widehat{US} = 114^\circ$
28. $m\angle GFE = 70^\circ$
29. $\angle NLK = 45^\circ$
30. $\widehat{US} = 76^\circ$
31. $\angle HFM = 44^\circ$
32. $\widehat{DB} = 43^\circ$
33. $m\widehat{JM} = 135^\circ$
34. $m\angle RQP = 68^\circ$
35. $m\widehat{BE} = 180^\circ$
36. $m\angle LKJ = 40^\circ$
37. $x = 32$
38. $x = 16$
39. $x = 17$
40. $x = 13$
41. $x = 8$
42. $x = 6$
43. $DV = 18$
44. $TR = 50$
45. $ML = 4$
46. $RS = 41$
47. $(x - 2)^2 + (y + 4)^2 = 36$
48. $(x + 4)^2 + (y + 1)^2 = 100$
49. $(x - 4)^2 + (y - 6)^2 = 225$
50. $(x + 6)^2 + (y - 2)^2 = 16,$
Area = $16\pi \approx 50.27 \text{ units}^2$
51. $(x + 2)^2 + (y - 3)^2 = 10,$
Area = $10\pi \approx 31.42 \text{ units}^2$
52. $(x - 3)^2 + y^2 = 97,$ Area =
 $97\pi \approx 304.73 \text{ units}^2$
53. Center: $(-4,6)$
Radius: $r = 5$
Eq.: $(x + 4)^2 + (y - 6)^2 = 25$
54. Center: $(4,0)$
Radius: $r = 2$
Eq.: $(x - 4)^2 + y^2 = 4$
55. $y = 5$ and $y = -5$
56. $x = -4$ and $x = 6$