

Common Core Geometry – Regents Review – Session One – Answer Key

1. $V = 9,145\sqrt{3}\pi m^3$
2. 14.5"
3. $11.75\pi ft$
4. $AG = 4$
5. 40°
6. $252\pi m^3$
7. $277\sqrt{3}\pi m^3$
8. Construction
9. $K'(2,0), L'(2,3), X'(4,0)$
10. $\angle 6, \angle 2, \angle 3$
11. $\angle 1, \angle 4, \angle 7$
12. $\angle 6 \& \angle 3, \angle 1 \& \angle 7, \angle 5 \& \angle 4, \angle 8 \& \angle 2.$
13. $(x+3)^2 + (y-8)^2 = 196$
14. $(15, -6)$
15. $y = 2x - 1$
16. $D_{\frac{1}{2}}, T_{-8, -2}$
17. $\left(\frac{3}{2}, -5\right)$
18. $U'(4,6), R'(10,6), P'(10,2), A'(4,2)$
19. 14
20. 70°
21. 11.6
22. 100°
23. 100°
24. No
25. $(x-1)^2 + (y-4)^2 = 26$
26. 49°
27. 51°
28. 360°
29. 45°
30. 9 sides
31. $(x-4)^2 + (y-4)^2 = 44$ $C:(4,4)$ $r = 2\sqrt{11}$
32. $(x-4)^2 + (y+4)^2 = 170$
33. $(x+5)^2 + (y-4)^2 = 16$
34. 2.5
35. 29'
36. 45
37. 1
38. 4
39. 88 feet
40. 91.5 feet
41. 2
42. $55^\circ, 50^\circ, 80^\circ$
43. AB is parallel to DC because Alternate Interior angles are congruent.
44. $20^\circ, 59^\circ, 101^\circ$
45. 1

46. 110°

47. 4

48. 3

49. 3

50. 58

51. 70°