

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

1. No
2. Floats
3. 280
4. 4
5. 32
6. 3.6
7. 4
8. 13
9. 4
10. a. $A'(6,4), B'(0,-2), C'(-6,2)$ b. Dilations preserve angle measure.
11. a. All three triangles are similar. b. $x=7.5, h=14.1, y=26$
12. $\sin r = \frac{15}{17}, \sin s = \frac{8}{17}, \cos r = \frac{8}{17}, \cos s = \frac{15}{17}, \tan r = \frac{15}{8}, \tan s = \frac{8}{15}$
13. a. 485.4 meters, b. 416.1 meters.
14. Not a right Triangle
15. a. Both pairs of opp. Sides are parallel, one set of adjacent sides are perpendicular.
b. It is a square, all side have a length of 5, c. 25 sq. units.
16. a. $x=-2$ b. $y=7$ c. $y=6x+19$ or $y-7=6(x+2)$
d. $y-7=\frac{-1}{6}(x+2)$ or $y=\frac{-1}{6}x+6\frac{2}{3}$
17. (4,7)
18. a. $\angle PCB$ and $\angle A$ b. 4.94 c. 15°
19. 10.6
20. 4
21. 1
22. 40 degrees

23. 50 degrees

24. 2

25. 79 inches

26. 8 times

27. 103 degrees

28. 3

29. 40 sq. units

30. $18 + 2\sqrt{41}$

31. 79.3 feet

32. 17

33. Proof