

## Geometry Mock Answers Session 1

1. It could be a sphere – so definition needs to be more precise stating it should be from the center that the radii are congruent and it should be in one plane.
2. D
3. 2<sup>nd</sup> and last box checked
4. (can be in any order or any various equations that will work)  $y = -1x + 6$  and  $y = -1x + 10$  and parallel
5. A
6. D
7. translation, reflection, reflection, rotation (top two and then bottom two – left to right)
8. 1<sup>st</sup> and 4<sup>th</sup> box checked
9. D
10. B
11. B
12. A
13. D
14. False, True, False
15. Reason 3 is the last option, Reason 6 is the third option
16. D
17. Statement & Reason choices # the options 1-4 then the answers would be for Statements in the following order 2, 3, 1, 4 and then the Reasons would be 3, 4, 1, 2
18. B
19. 56
20. Statement 3 is the first statement choice and Reason 3 is the 3<sup>rd</sup> reason choice
21. D
22. Step 3
23. D
24. B
25. Yes, Yes, No, No
26. 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> box checked
27. C
28. 1<sup>st</sup>, 3<sup>rd</sup>, and last box checked
29. C
30. B
31. D
32. D
33. Just know that the triangles are proportional and similar due to angle/angle (AA Similarity)
34. C
35. A
36.  $\angle FAD = \angle BAD$  due to ASA
37. 125
38. No  $x = 9.6$
39. 0.12
40. 154
41. 80
42. 12.1 and 7.1 and Mark
43. 29.6, 23.1 or 37.6, 45.1
44. B
45.  $\sin 30 = \frac{1}{2}$  same with  $\cos 60$   $\cos 30 = \text{square root of } \frac{3}{2}$  same with  $\sin 60$   
same value, same value, and opp angles so opp/hyp is equal to adj/hyp or 30/60/90 formula
46. 0.4