

Answers - Chapter 1 Review

1. Sample: Each number is twice the previous number + 2; 62
2. The next consecutive square integer starting with "1", 25
3. Divide the previous number by 2.
4. Divide the previous number by 5.

7. False
8. True
9. False
10. true
11. + true
12. True

13. $AB=10, BC=15, CO=5$

14. $5.39 = \sqrt{29}$

15. $4.47 = 2\sqrt{5}$

16. $6.08 = \sqrt{37}$

17. $7.07 = \sqrt{50} = 5\sqrt{2}$

18. $9.22 = \sqrt{85}$

19. $6.40 = \sqrt{41}$

20. vertex S
Sides $\overrightarrow{SR}, \overrightarrow{ST}$

21. $\overrightarrow{YX}, \overrightarrow{YZ}$

22. $X=43, Y=60$

23. $X=12, Y=168$

24. 70

25. 40°

26. 160°

27. 130°

28. (8, 1)

29. (-1, 8)

30. (2, 16)

31. $(-\frac{1}{2}, +11)$

32. Eg. $3X-30=90$ $m\angle A=80^\circ$
 $X=40$ $m\angle C=10^\circ$

33. Eg. $12X-6=180$ $m\angle A=109.5^\circ$
 $X=15.5$ $m\angle B=70.5^\circ$

34. $C = 40\pi \text{ ft} \approx 125.7 \text{ ft}$

35. $p = 18 \text{ yd.}$

36. $A = 48 \text{ ft}^2$

37. $A = 12 \text{ yd}^2$