

Trig 8-3 Law of Cosines

Name: _____

Time Start: _____ Finish: _____ Total Time = _____

Find x or θ . Round answers to the nearest tenth if needed (many will be whole numbers).

Figure 1

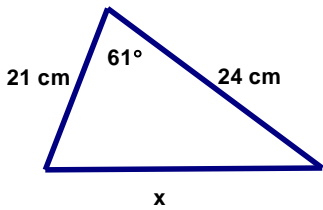


Figure 2

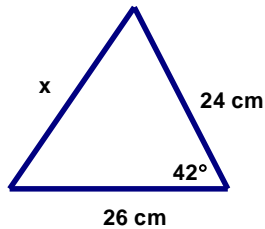


Figure 3

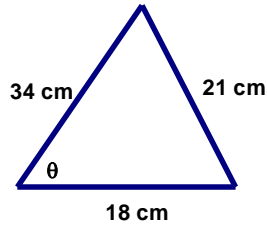


Figure 4

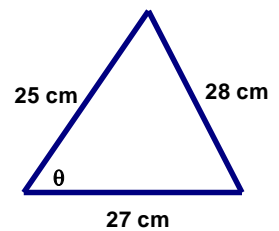


Figure 5

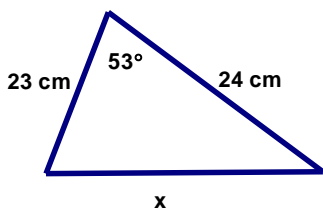


Figure 6

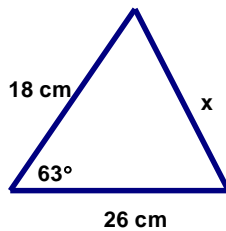


Figure 7

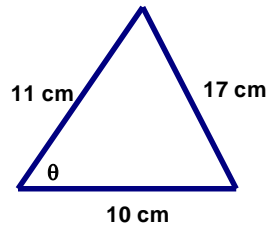


Figure 8

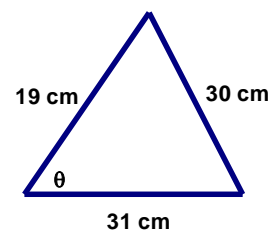


Figure 9

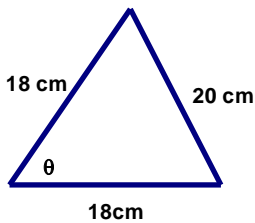


Figure 10

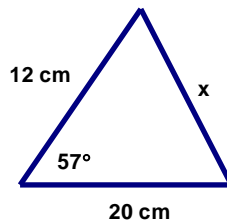


Figure 11

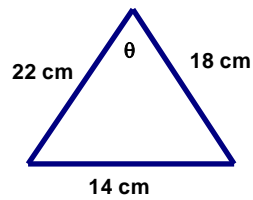


Figure 12

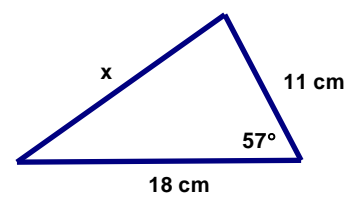


Figure 13

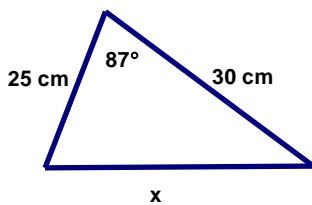


Figure 14

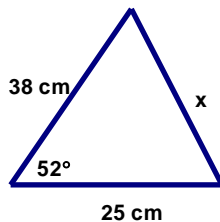


Figure 15

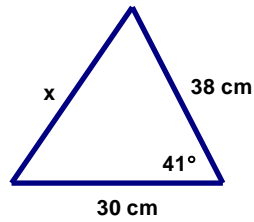
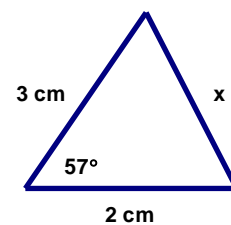


Figure 16



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

SAT Questions

_____ 17. If $x > x^2$, which of the following must be true?

- I. $x < 1$
- II. $x > 0$
- III. $x^2 > 1$

- A. I only
- B. II only
- C. I and II only
- D. I and III only
- E. I, II, and III

_____ 18. The chickens on a certain farm consumed 600 pounds of feed in half a year. During that time the total number of eggs laid was 5,000. If the feed cost \$1.25 per pound, then the feed cost per egg laid was

- A. \$.0750
- B. \$0.1250
- C. \$0.15
- D. \$0.25
- E. \$0.3333

_____ 19. What fraction of the even integers between 2 and 16, inclusive, satisfy the statement $3w - 2 > 28$?

- A. $\frac{1}{8}$
- B. $\frac{1}{4}$
- C. $\frac{3}{8}$
- D. $\frac{1}{2}$
- E. $\frac{5}{8}$