

# Trig 8-4 Law of Sines

Name: \_\_\_\_\_

Time Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

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

Figure 1

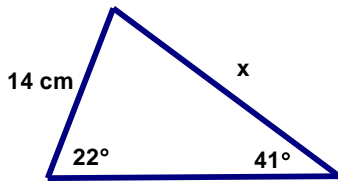


Figure 2

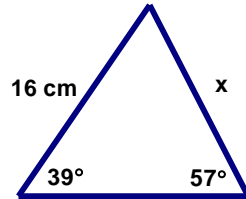


Figure 3

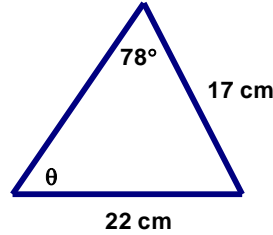


Figure 4

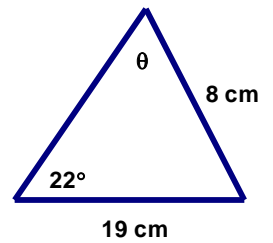


Figure 5

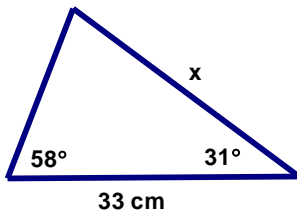


Figure 6

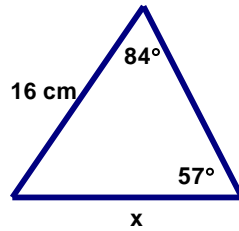


Figure 7

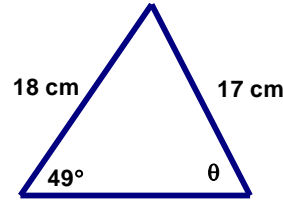


Figure 8

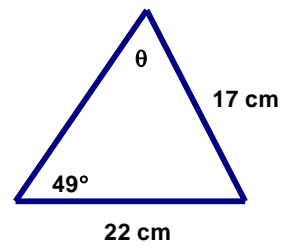


Figure 9

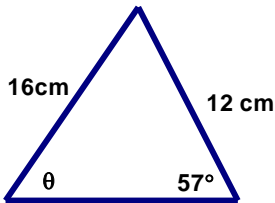


Figure 10

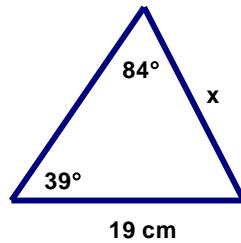


Figure 11

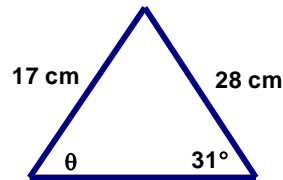


Figure 12

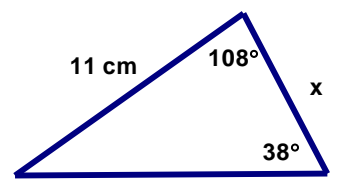


Figure 13

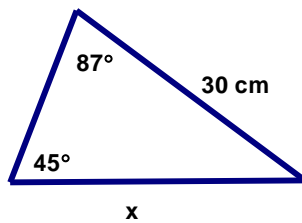


Figure 14

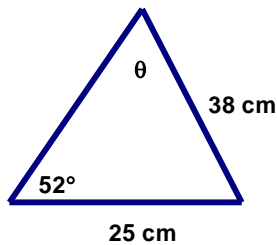


Figure 15

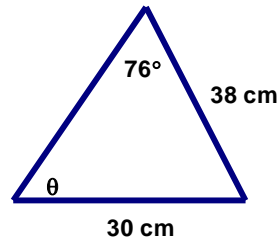
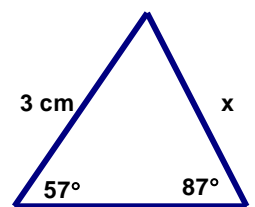


Figure 16



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

## SAT Questions

- \_\_\_\_\_ 17. The distance from Appletown to Brickton is 6 miles and the distance from Caper City is 9 miles. Which of the following could be the distance, in miles, from Appletown to Caper City?
- A. 14                      B. 16                      C. 17                      D. 18                      E. 19

\_\_\_\_\_ 18. If  $3x^2 = 4y = 12$ , what is the value of  $x^2y$ ?

\_\_\_\_\_ 19. How many ordered pairs of integers  $(x, y)$  satisfy  $x^2 + y^2 < 9$ ?