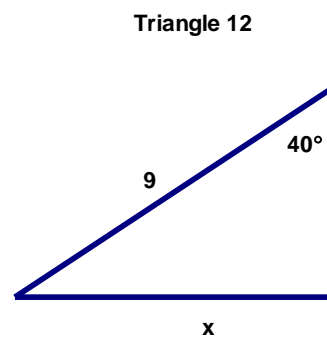
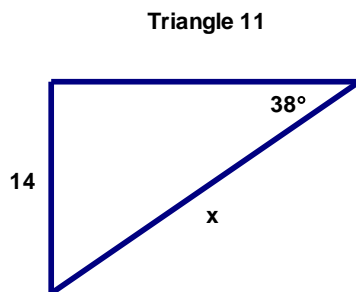
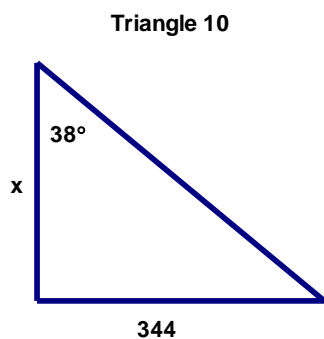
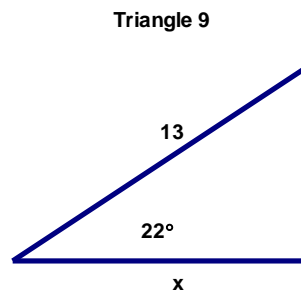
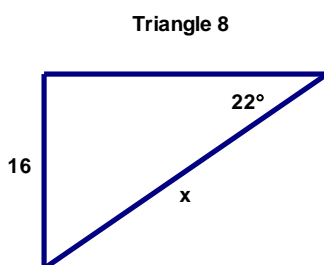
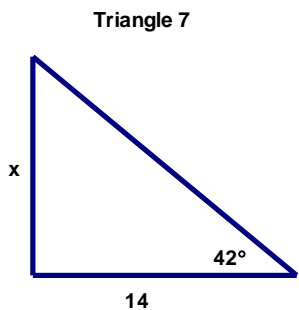
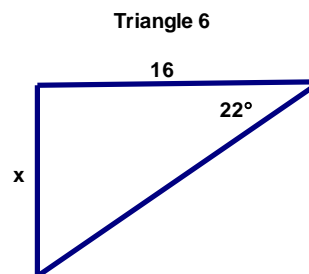
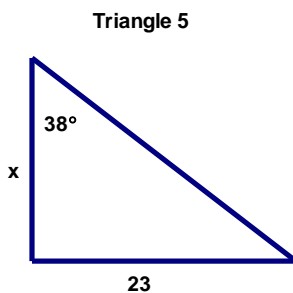
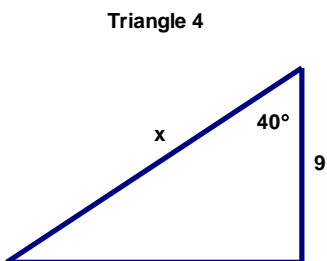
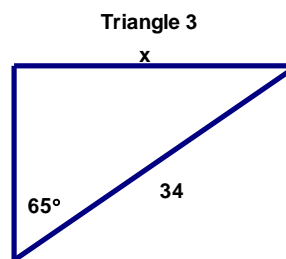
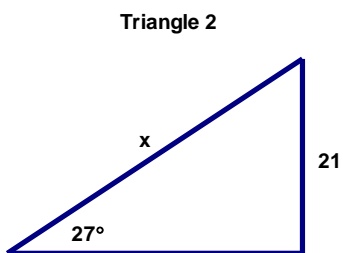
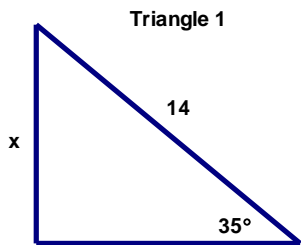


Geometry 8-1 SOHCAHTOA

Name: _____ Time Start: _____ Finish: _____ Total Time = _____

All triangles are right triangles. Round the value of x to the nearest tenth.



Triangle 1 $x = \underline{\hspace{2cm}}$

Triangle 2 $x = \underline{\hspace{2cm}}$

Triangle 3 $x = \underline{\hspace{2cm}}$

Triangle 4 $x = \underline{\hspace{2cm}}$

Triangle 5 $x = \underline{\hspace{2cm}}$

Triangle 6 $x = \underline{\hspace{2cm}}$

Triangle 7 $x = \underline{\hspace{2cm}}$

Triangle 8 $x = \underline{\hspace{2cm}}$

Triangle 9 $x = \underline{\hspace{2cm}}$

Triangle 10 $x = \underline{\hspace{2cm}}$

Triangle 11 $x = \underline{\hspace{2cm}}$

Triangle 12 $x = \underline{\hspace{2cm}}$

SAT Questions

(Numbering is off to keep it consistent with my videos for Trig)

For 17-18, the following rule is to be used.

For any positive integer n , $\epsilon(n)$ represents the number of positive divisors of n .

(For example $\epsilon(10) = 4$ since the positive divisors of 10 are 1, 2, 5, and 10.)

_____ **17.** Which of the following is (are) true?

I. $\epsilon(5) = \epsilon(7)$

II. $\epsilon(5) \bullet \epsilon(7) = \epsilon(35)$

III. $\epsilon(5) + \epsilon(7) = \epsilon(12)$

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

_____ **18.** What is the value of $\epsilon(\epsilon(\epsilon(12)))$?

_____ **19.** If $a = b^3$ and b is positive, then by what factor does a increase if b is tripled?

A. 3 B. 8 C. 9 D. 27 E. 81

_____ **20.** If $20^w = 5^3 \times 4^3$, what is the value of w ?