8-1 SOHCAHTOA

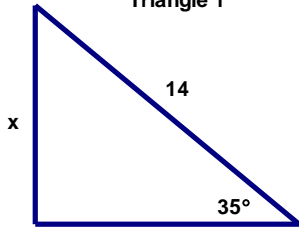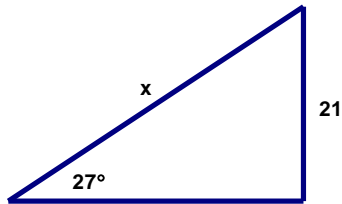Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

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

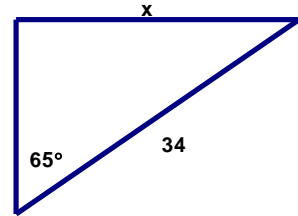**Triangle 1**

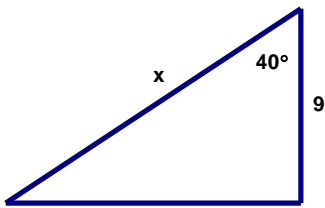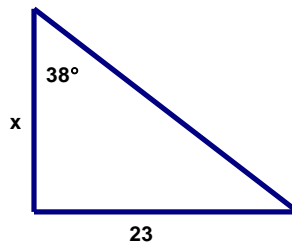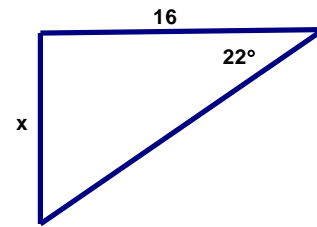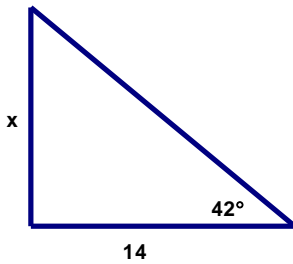14
x
35°

Triangle 2

x
21
27°

Triangle 3

x
65°   34

Triangle 4

40°
x
9

Triangle 5

38°
x
23

Triangle 6

16
22°
x

Triangle 7

x
42°
14

Triangle 8

22°
16
x

Triangle 9

13
22°
x

Triangle 10

38°
x
344

Triangle 11

38°
14
x

Triangle 12

40°
9
x
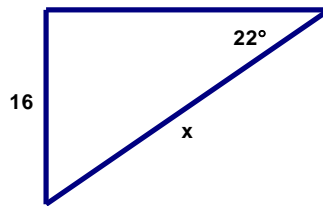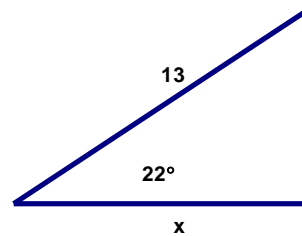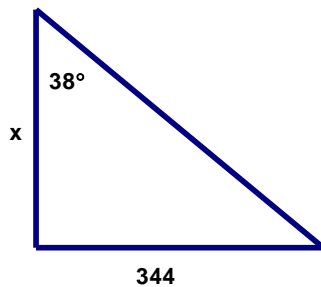
| Triangle 1 | x = _____ | Triangle 2 | x = _____ | Triangle 3 | x = _____ |
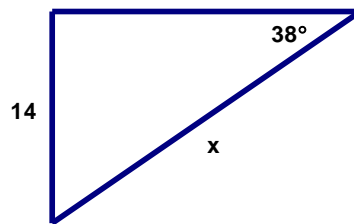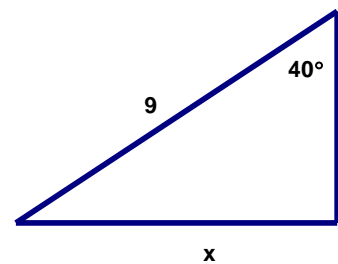
Triangle 1   x = _____   Triangle 2   x = _____   Triangle 3   x = _____

Triangle 4   x = _____   Triangle 5   x = _____   Triangle 6   x = _____

Triangle 7   x = _____   Triangle 8   x = _____   Triangle 9   x = _____

Triangle 10   x = _____   Triangle 11   x = _____   Triangle 12   x = _____

SAT Questions

_____13. If r is a positive number and s is a negative number, all of the following must represent positive numbers EXCEPT
A. $-r + s$
B. $r - s$
C. $\dfrac{r}{s^2}$
D. rs^2
E. $(rs)^2$

_____14. At Hickam University, there are a total of 100 students. If 30 of the students have cars on campus, 50 have mopeds, and 20 have both a car and moped, how many students have neither a car nor a moped?

_____15. If 8 people share a winning lottery ticket and divide the cash prize equally, what percent of the prize do 2 of them together receive?
A. 8%
B. 10%
C. 20%
D. 25%
E. 40%