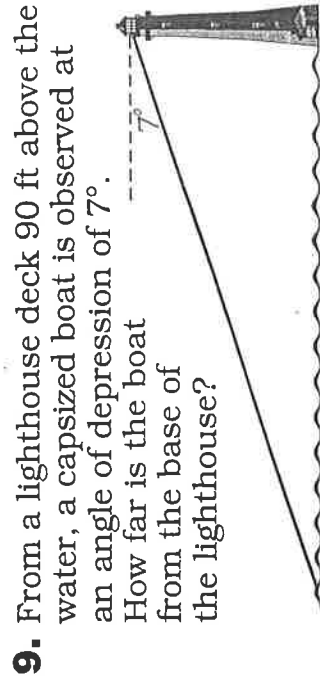
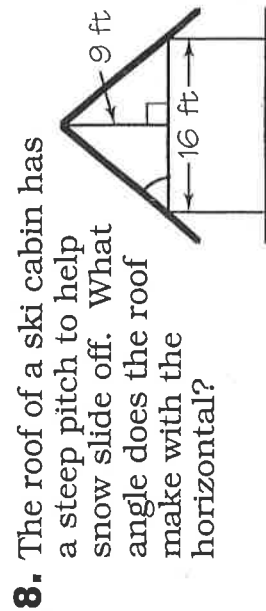
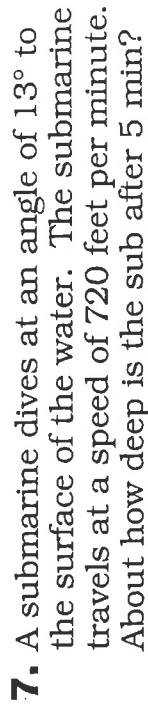
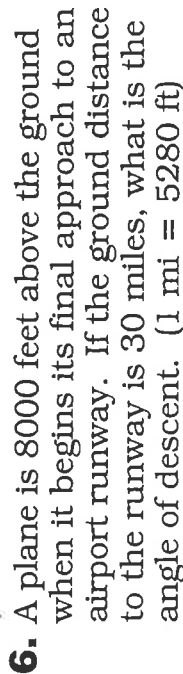
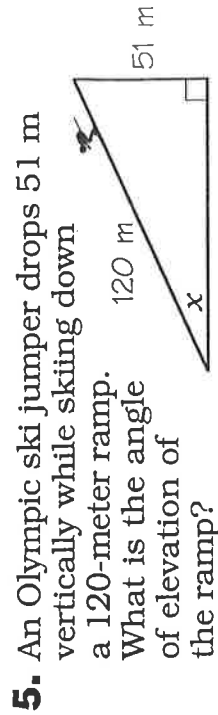
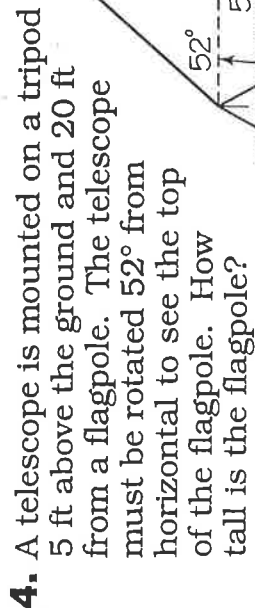
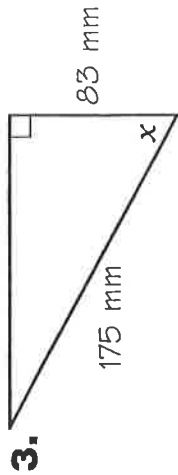
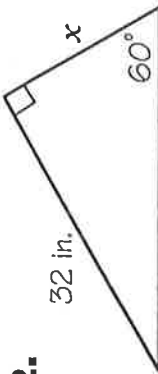
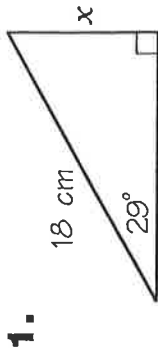


What Do You Get . . .

1.	2.	3.	4.	5.	6.	7.	8.	9.	?
----	----	----	----	----	----	----	----	----	---

Find the measure of the side or angle labeled x , or solve the problem. Write the word next to your answer in the corresponding box above.



Answers

810 ft WITH

5° GAME

25° BASEBALL

8.4 cm ON

18.5 in. YOU

50° BIG

30.6 ft A

825 ft WHO

8.7 cm WHEN

733 ft FROG

3° PLAYER

17.8 in. SMOKE

23° HIT

680 ft UNICORN

48° A

62° CROSS

28.5 ft OVER

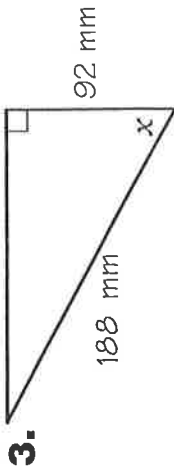
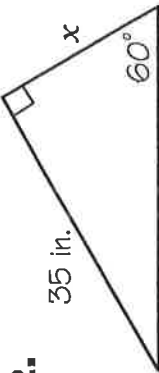
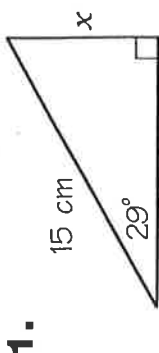
Team Name: _____

Partner B: _____

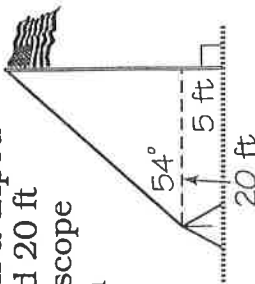
What You Get Is

1.	2.	3.	4.	5.	6.	7.	8.	9.
----	----	----	----	----	----	----	----	----

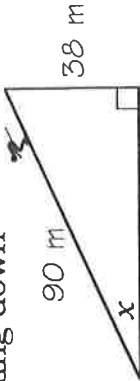
Find the measure of the side or angle labeled x , or solve the problem. Write the word next to your answer in the corresponding box above.



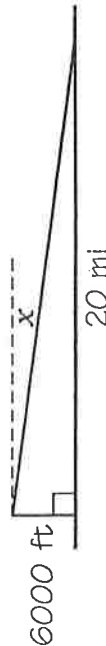
4. A telescope is mounted on a tripod 5 ft above the ground and 20 ft from a flagpole. The telescope must be rotated 54° from horizontal to see the top of the flagpole. How tall is the flagpole?



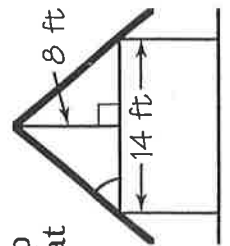
5. An Olympic ski jumper drops 38 m vertically while skiing down a 90-meter ramp. What is the angle of elevation of the ramp?



6. A plane is 6000 feet above the ground when it begins its final approach to an airport runway. If the ground distance to the runway is 20 miles, what is the angle of descent. (1 mi = 5280 ft)



8. The roof of a ski cabin has a steep pitch to help a snow slide off. What angle does the roof make with the horizontal?



9. From a lighthouse deck 80 ft above the water, a capsized boat is observed at an angle of depression of 5° . How far is the boat from the base of the lighthouse?



Answers

19.5 in. **ELEPHANT**

3° AND

32.5 ft CATCHES

27° BALLS

892 ft PEANUTS

49° EATS

7.3 cm AN

840 ft RUNS

25° FLIES

47° HITS

20.2 in. OUTFIELDER

7.8 cm SOME

855 ft THEN

33.8 ft PLAYS

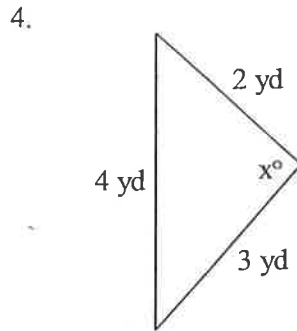
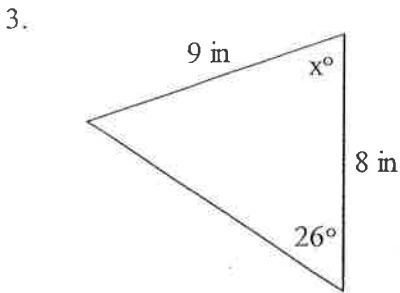
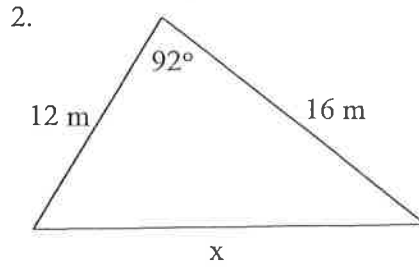
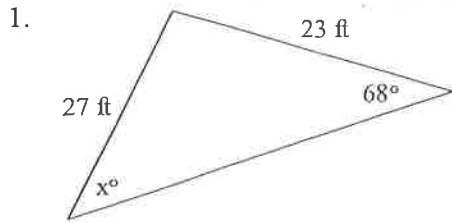
914 ft THEM

61° WHO

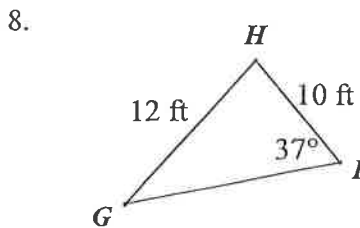
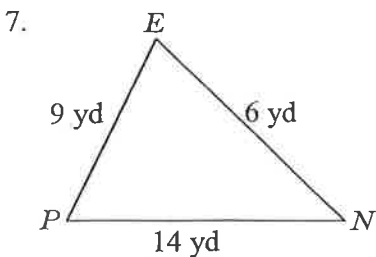
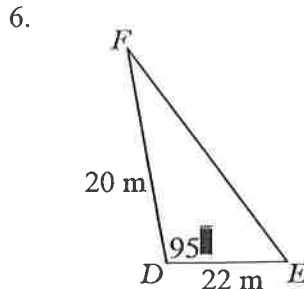
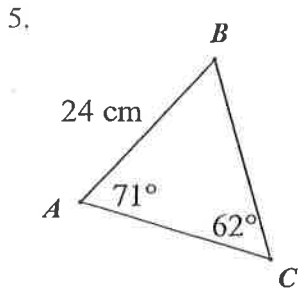
5° WITH

Algebra 2 Unit 12 Law of Sines and Cosines Practice

Solve for the unknown side or angle. Round to the nearest tenth.



Solve each triangle (find all of the missing sides and angles). Round to the nearest tenth.



Some information from $\triangle ABC$ is given. Find the missing sides and angles. Round to the nearest tenth.

9. $A = 28^\circ$, $b = 23$ cm, $c = 8$ cm

10. $B = 128^\circ$, $a = 16$ ft, $c = 24$ ft

11. $A = 36^\circ$, $B = 53^\circ$, $b = 17$ m

12. $A = 55^\circ$, $b = 12$ mi, $c = 7$ mi

13. $a = 3.3$ in, $b = 7.6$ in, $c = 6.4$ in

14. $A = 58^\circ$, $a = 27$ in, $b = 25$ in