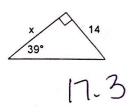
Trig Practice

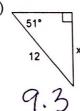


Find the missing side. Round to the nearest tenth.

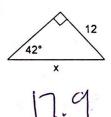
1)



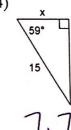
2



3)

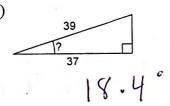


4)

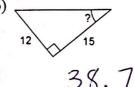


Find the measure of the indicated angle to the nearest tenth of a degree.

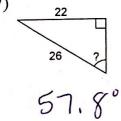
5)



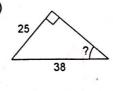
6



7)



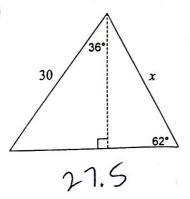
8)



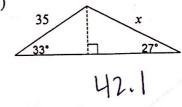
41.1

Find the length of the side labeled x. Round your final answer to the nearest tenth.

9)



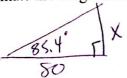
10)



Set up & solve each problem. Sketch a diagram first.

11. From a point on level ground 80 feet from the base of the Eiffel Tower, the angle of elevation is 85.4°. Approximate the height of the Eiffel Tower to the nearest foot.

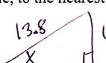




Tan 85. 4 = 50 V = 994.31 50 1994 ft

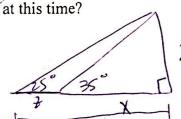


12. A guy wire is 13.8 yards long and is attached from the ground to a pole 6.7 yards above the ground. Find the angle, to the nearest tenth of a degree, that the wire makes with the ground.



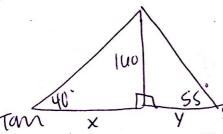
Sint= 6.7 13.8 [0=29.05°]

13. From a height of 265 m above an ocean the pilot in a plane spots to ships sailing due east. The angle of depression to one of the ships measures 35 ° and to the other ship measures 25°. How far apart are the ships



2) Tan 25 = 265 Y = 568.294

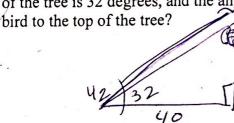
14. Tom and Sam are on the opposite sides of a tower of 160 meters height. They measure the angle of elevation of the top of the tower as 40° and 55° respectively. Find the distance between Tom and Sam.



1 Tanss= 160

3 distance = x+y

Tan 40 = 100Tan 40 = 100 0 = 302.71 m $0 = 302.71 \text$ of the tree is 32 degrees, and the angle of elevation to the bird is 42 degrees. What is the distance from the



 1×7 (1) Tan 32 = $\frac{y}{40}$ (3) x = h 1×7 (1) Tan 32 = $\frac{y}{40}$ (3) x = h 1×7 (2) Tan 42 = $\frac{h}{40}$ (3) x = h 1×7 (3) x = h 1×7 (3) x = h 1×10 (4) x = h 1×10 (5) x = h 1×10 (6) x = h 1×10 (7) x = h 1×10 (8) x = h 1×10 (9) x = h 1×10 (10) x = h

16. From the top of a tower, the angle of depression to a flower on the ground is 74 degrees. The top of the tower is 90 feet above ground. How far is the flower from the foot of the tower?

