Row: _____

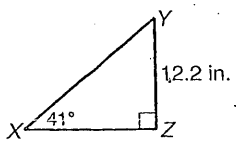
Name:_____

Per: _____

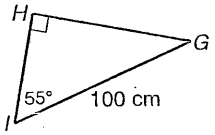
Chapter 8 Review (Day 1)

1) Consider a 30-60-90 triangle. Find tan 60 WITHOUT using a calculator. Draw a diagram and leave your answer in simplest radical form.

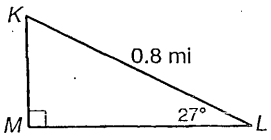
Find each length. Round to the nearest hundredth.

2) 

XZ _____

3) 

HI _____

4) 

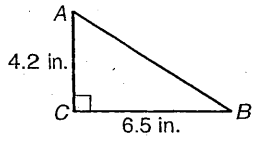
KM _____

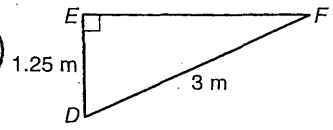
Find the geometric mean of each pair of numbers. If necessary, give the answer in simplest radical form.

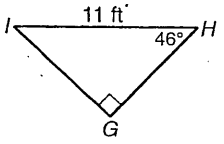
5) $\frac{1}{4}$ and 4 _____

6) 3 and 75 _____

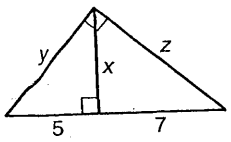
Find the unknown measures. Round lengths to the nearest hundredth and angle measures to the nearest degree.

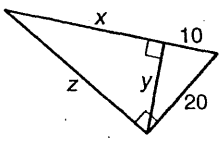
7) 

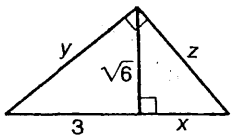
8) 

9) 

Find *x*, *y*, and *z*.

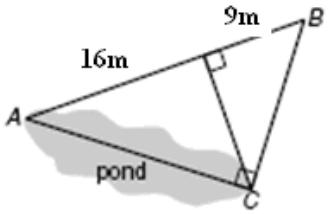
10) 

11) 

12) 

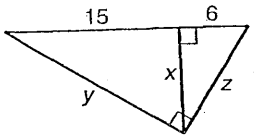
13) Consider a 45-45-90 triangle. Find cos 45 WITHOUT using a calculator. Draw a diagram and leave your answer in simplest radical form.

14) Find the distance across the pond ($\overline{AC}$) to the nearest meter

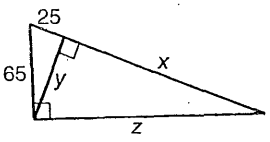


Find *x*, *y*, and *z*.

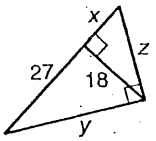
15)



16)

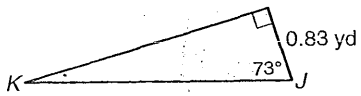


17)



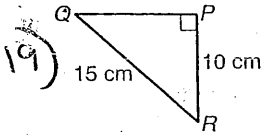
Find the unknown measures. Round lengths to the nearest hundredth and angle measures to the nearest degree.

18)



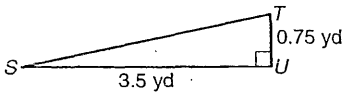
KJ =

19)



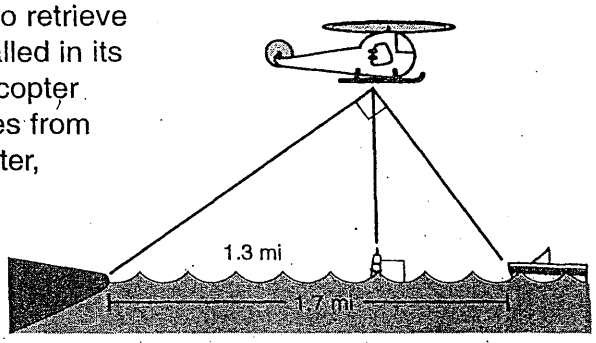
m∠R =

20)



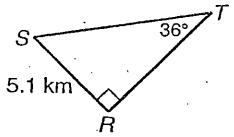
m∠T =

21) The Coast Guard has sent a rescue helicopter to retrieve passengers off a disabled ship. The ship has called in its position as 1.7 miles from shore. When the helicopter passes over a buoy that is known to be 1.3 miles from shore, the angle formed by the shore, the helicopter, and the disabled ship is 90°. Determine what the altimeter would read to the nearest foot when the helicopter is directly above the buoy.



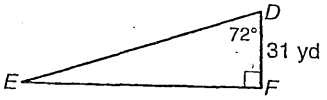
Find each length. Round to the nearest hundredth.

22)



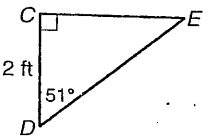
ST _____

23)



EF _____

24)



DE _____