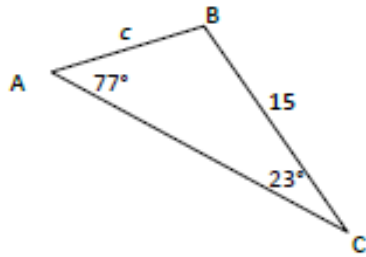


Unit 2 Day 4 HW(1)

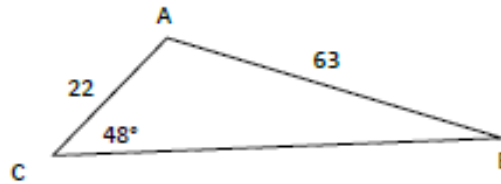
*Evens Only*  
*+ # 20 on back*

II. Find the length of a side or measure of an angle using Law of Sines.

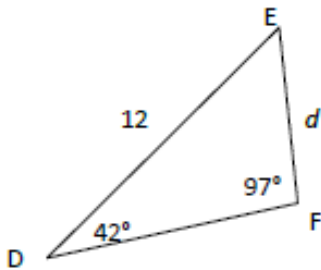
1. For  $\triangle ABC$  find  $c$  to the nearest hundredth.



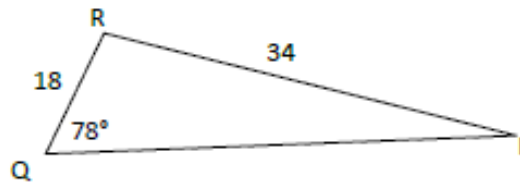
2. For  $\triangle ABC$  find  $m\angle B$  to the nearest whole degree.



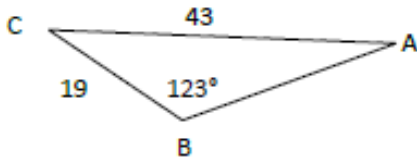
3. For  $\triangle DEF$  find  $d$  to the nearest hundredth.



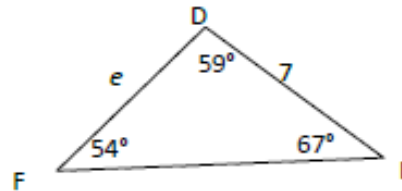
4. For  $\triangle PQR$  find  $m\angle P$  to the nearest whole degree.



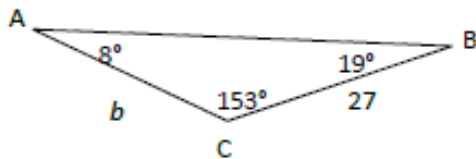
5. For  $\triangle ABC$  find  $m\angle A$  to the nearest whole degree.



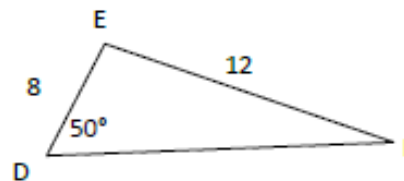
6. For  $\triangle DEF$  find  $e$  to the nearest hundredth.



7. For  $\triangle ABC$  find  $b$  to the nearest hundredth.



8. For  $\triangle DEF$  find  $m\angle F$  to the nearest whole degree.



9. For  $\triangle ABC$ ,  $a = 18$ ,  $b = 6$ , and  $m\angle A = 28^\circ$ . Find  $m\angle B$  to the nearest whole degree.

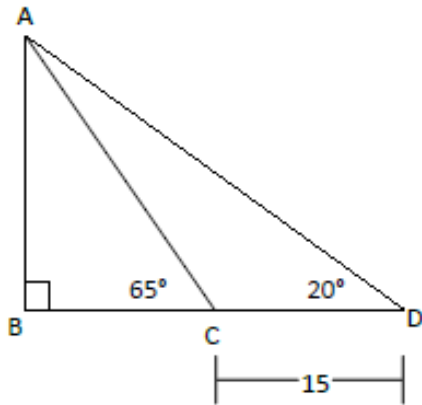
10. For  $\triangle DEF$ ,  $d = 24$ ,  $m\angle D = 37^\circ$ , and  $m\angle E = 49^\circ$ . Find  $e$  to the nearest whole degree.

11. For  $\triangle DEF$ ,  $d = 54$ ,  $f = 27$ ,  $m\angle D = 20^\circ$ . Find  $m\angle F$  to the nearest whole degree.

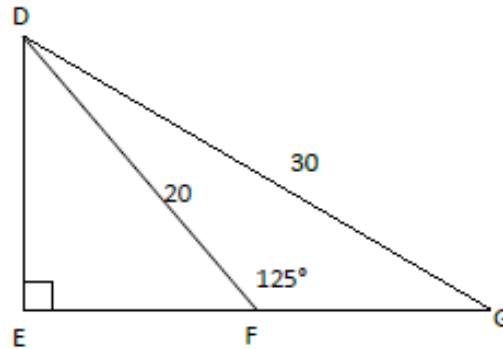
12. For  $\triangle ABC$ ,  $a = 42$ ,  $c = 72$ , and  $m\angle C = 41^\circ$ . Find  $m\angle A$  to the nearest whole degree.

### III. Challenge Problems

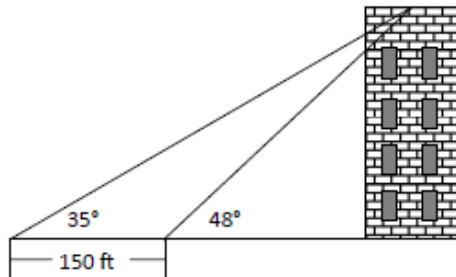
19. For the figure below find  $BC$  to the nearest whole number.  $CD=15$ .



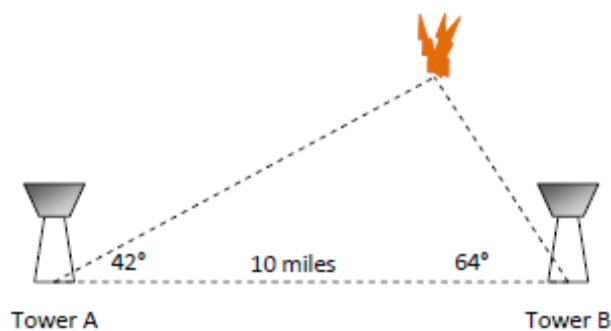
20. For the figure below find  $m\angle EDG$  to the nearest whole degree.



21. Find the height of the building in the figure below to the nearest foot.

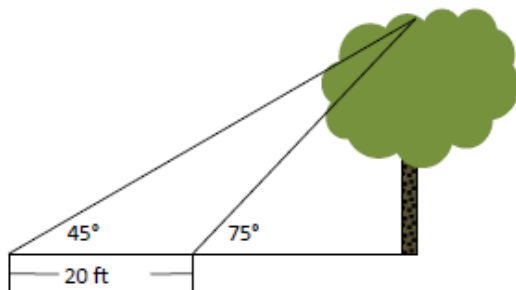


22. Fire towers A and B are located 10 miles apart. They use the direction of the other tower as  $0^\circ$ . Rangers at fire tower A spots a fire at  $42^\circ$ , and rangers at fire tower B spot the same fire at  $64^\circ$ . How far from tower A is the fire to the nearest tenth of a mile?



23. Find the height of the tree below to the nearest foot.

AF



Name \_\_\_\_\_