

Name: _____

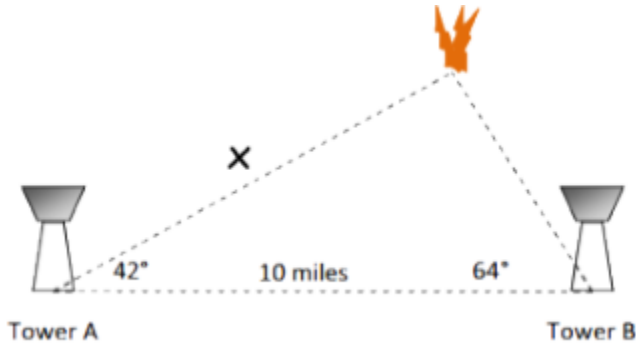
Date: _____

Period: _____

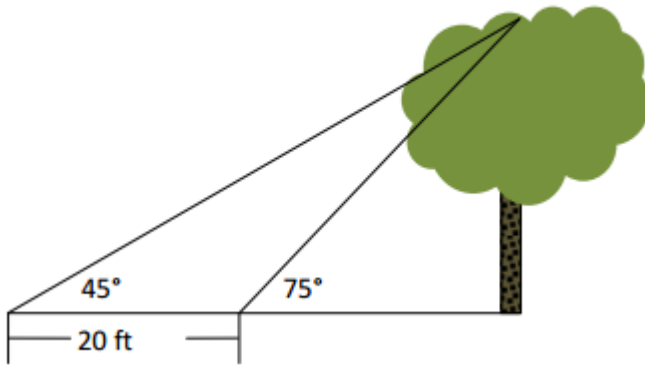
Mr. Valentino

Aim: Law of Sines (day 2)

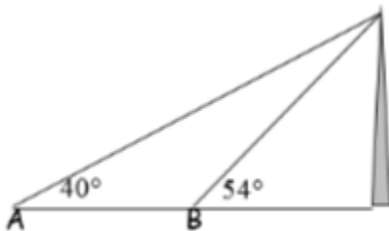
Do Now: Fire towers A and B are located 10 miles apart. Rangers at fire tower A spots a fire at 42° , and rangers at fire tower B spot the same fire at 64° . How far from tower A is the fire to the nearest tenth of a mile?



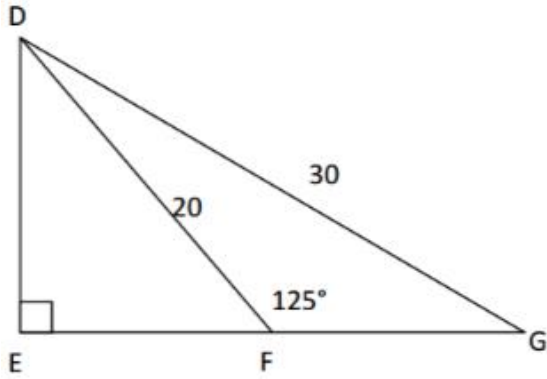
1. Find the height of the tree below to the nearest foot.



2. From points A and B, 10 m apart, the angles of elevation of the top of a tower are 40° and 54° , as shown. Find the tower's height (to the nearest meter).

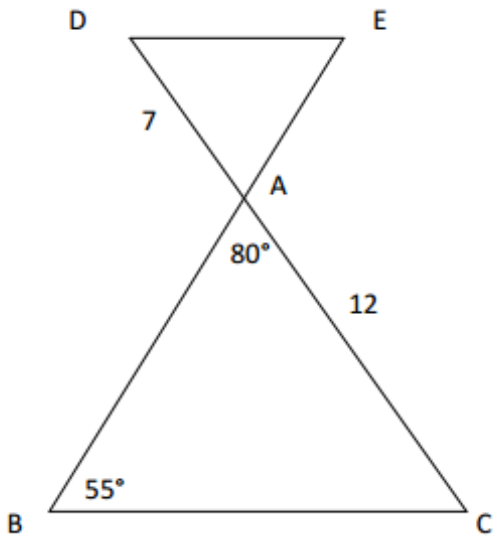


3. For the figure below find $m\angle EDG$ to the nearest whole degree.

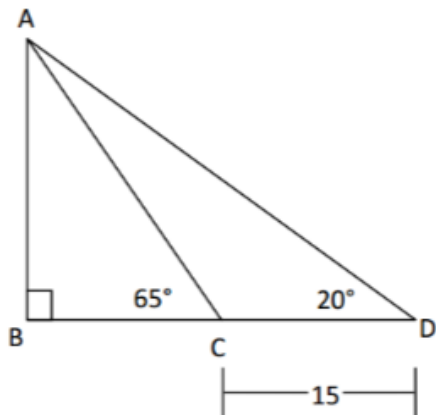


Now you try!

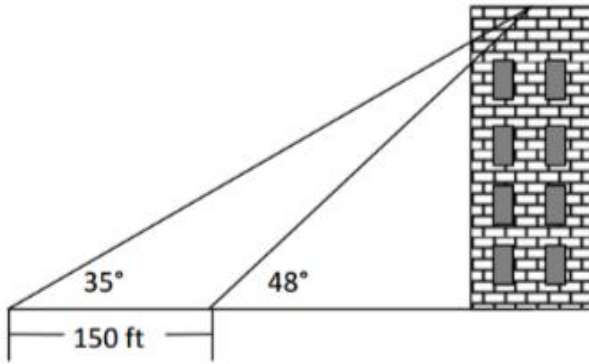
4. $\triangle DEA \sim \triangle CBA$, Find DE to the nearest whole number



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



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



7. Suppose that you are the pilot of a commercial airliner. You find it necessary to detour around a group of thundershowers (see figure). You turn at an angle of 21° to your original path, fly for a while, turn, and intercept your original flight path at an angle of 35° , 70 kilometers from where you left it. How much further did you have to go because of the detour?

