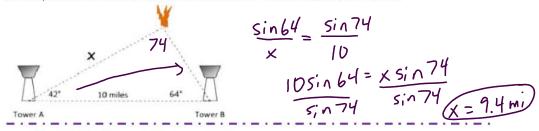
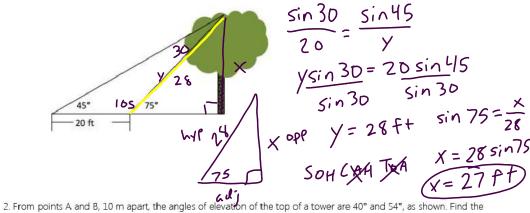
Name: Date: Period: Mr. Valentino Aim: Law of Sines (day 2)

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?



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



tower's height (to the nearest meter).

$$\frac{\sin 14}{10} = \frac{\sin 40}{y}$$

$$\frac{y \sin 14 - 10 \sin 40}{\sin 14}$$

$$y = 27 m$$

$$\frac{\sin 9b}{x} = \frac{\sin 54}{x}$$

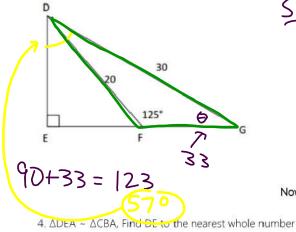
$$\frac{\sin 9b}{x} = \frac{\sin 54}{x}$$

$$\frac{\sin 9b - \sin 9b - \sin 9b}{x}$$

$$\frac{\sin 9b - \sin 9b - \sin 9b - \sin 9b}{x}$$

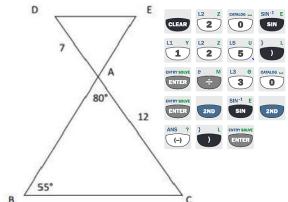
$$\frac{\sin 9b - \sin 9b -$$

3 For the figure below find m∠EDG to the nearest whole degree.



 $\frac{\sin G}{20} = \frac{\sin |25|}{30}$ $\frac{20 \sin |25|}{30} = \frac{30 \sin 6}{30}$ $\frac{30}{20 \sin |25|} = \sin 6$

Now you try!



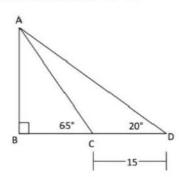
NORMAL FLOAT AUTO REAL DEGREE MP

20sin(125)

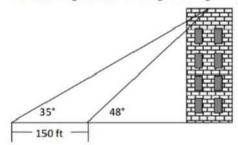
16.38304089 Ans/30

sin¹(Ans)

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?

