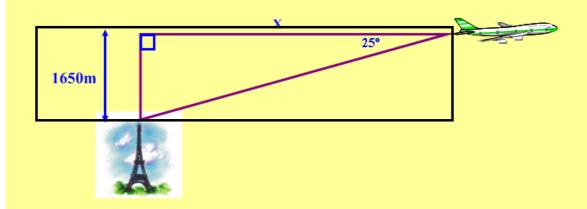
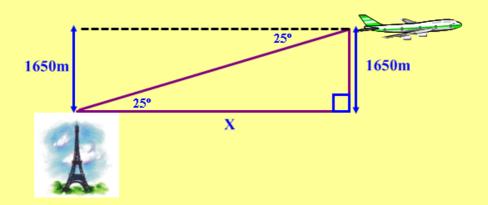
Warm Up Questions !!

#1 The angle of depression from a plane in the air to the top of a tower is 25°. The altitude of the plane is 1650m higher than the top of the tower. What is the horizontal distance from the plane to the tower?

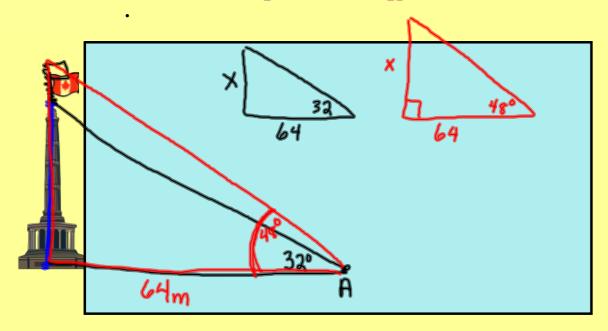


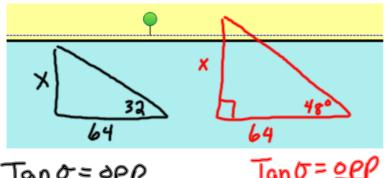
Warm Up Questions !!

#1 The angle of depression from a plane in the air to the top of a tower is 25°. The altitude of the plane is 1650m higher than the top of the tower. What is the horizontal distance from the plane to the tower?



#2 The angle of elevation to the top of a building from point A is 32°. Point A is located 64.0m from the base of the building. A flagpole is on the top of the building. The angle of elevation from point A to the top of the flagpole is 48°. What is the length of the flagpole?





$$0.6249 = \frac{x}{64}$$

$$44$$

 $x = 39.99$

$$\overline{1} \text{an 48} = \frac{X}{64}$$

$$1.1106 = \frac{x}{64}$$

Flagpole :

X = 71.1 Hopping 31.1 m 20.

A forest ranger in a tower 150m high sights two fires in the same line of sight with the angles of depression of 40 and 70 degrees. How far apart are the fires?

