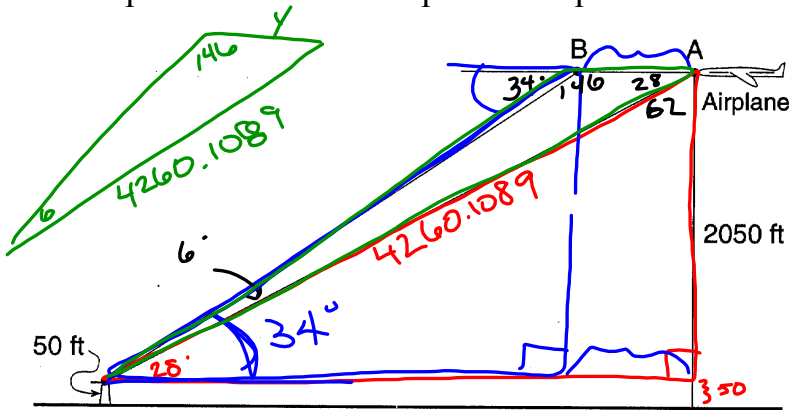
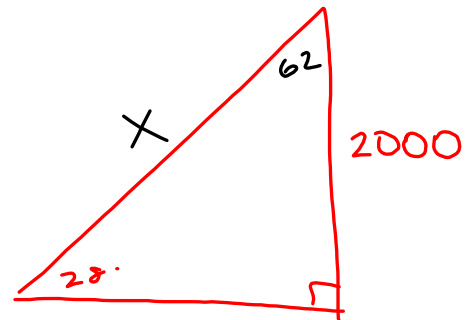


DO NOW

An airplane traveling at a level altitude of 2050 feet sights the top of a 50-foot tower at an angle of depression of 28° from point A . After continuing in level flight to point B , the angle of depression to the same tower is 34° . Find, to the *nearest foot*, the distance that the plane traveled from point A to point B .



(not drawn to scale)



$$\sin 28 = \frac{2000}{x}$$

$$\frac{\sin 6}{y} = \frac{\sin 146}{4260.1089}$$

$$x = 4260.1089 \dots$$

$$x = 796$$

