Bellwork Friday, March 21, 2014

1. A triangle has sides of given length: 56, 72, 120

Is this triangle acute, obtuse, or right?

2. Given \triangle WAT is a right triangle and Tan W = $\frac{11}{60}$

Find Cos W and Sin W as ratios.

3. A fireman uses a 40 foot long ladder to reach a person on the balcony of their apartment. If the person on the balcony sees the fireman at the bottom of the ladder with an angle of depression of 63° find the height of the balcony to the nearest tenth of a foot.

4. A weather balloon is released and since there is no wind it rises straight up. A few moments you see the balloon with an angle of elevation of 71°. If you are 50 feet from where the balloon was released find the height of the balloon to the nearest hundredth of a foot.