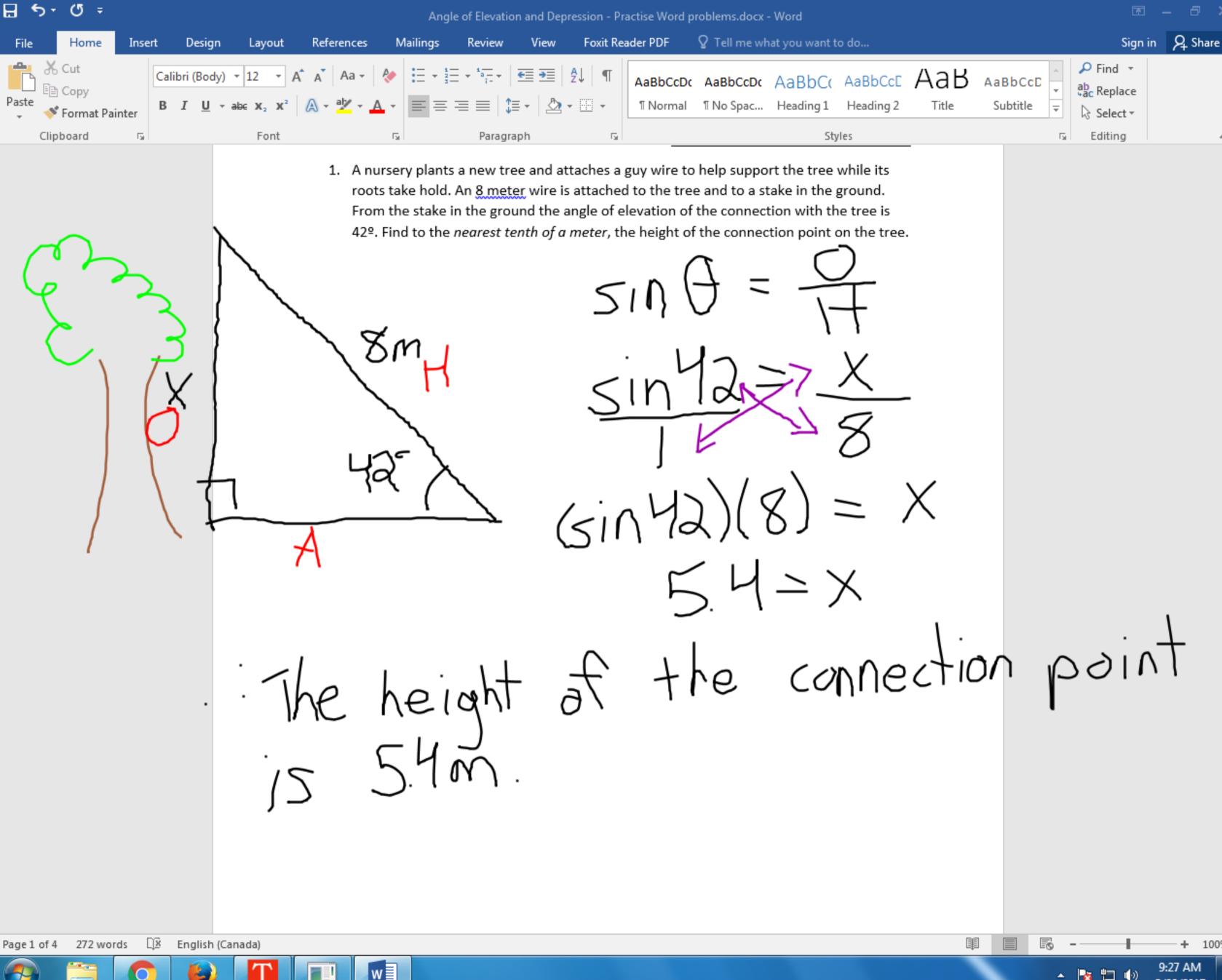
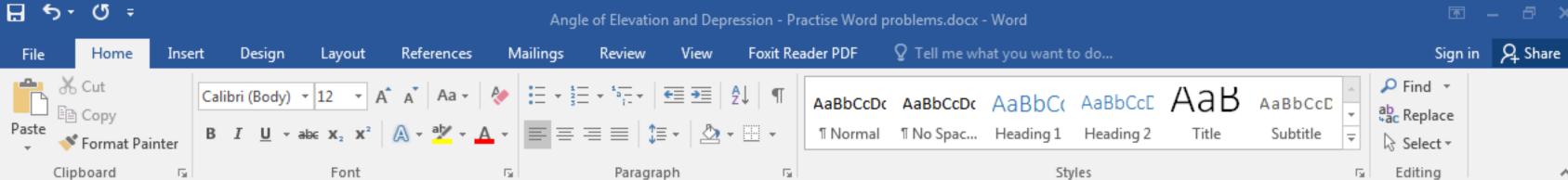
From a point 8m from the base of a building, Olaf measures the angle of elevation to top of the using a 1.5m tall transit instrument. The angle of elevation is 50 degrees. How tall is the building?

The Cathedral Fluffs in Toronto, Ontario are the result of wind and water erosion from Lake Ontario. The highest point along the cliffs is 90m above the shore. From the top of the cliffs, a surveyor using a 1.5m tall trasit instrument spots a boat out in the lake at an angle of depression of 42 degrees. How far is the boat from the shore? Round your answer to one decimal place. The boat is 101.6m away from the shore



3/22/2017



2. From the top of a fire tower, a forest ranger sees his partner on the ground at an angle of depression of 40°. If the tower is 45 meter in height, how far is the partner from the base of the tower, to the nearest tenth of a meter?

