**Hmwk: pg 332 # 1, 2, 3ab, 4, 6, (7), 11**

**Trigonometry and Three-Dimensional Problems**

**Example 1**

Calvin stands on the observation deck of the CN Tower 550m above the ground. He sees an accident below and an ambulance en route.

* The ambulance is located at a bearing of 120o and at an angle of depression of 40o.
* The accident is located at a bearing of 200o and at an angle of depression of 30o.

How far is the ambulance from the accident?



**N**

**W**

**E**



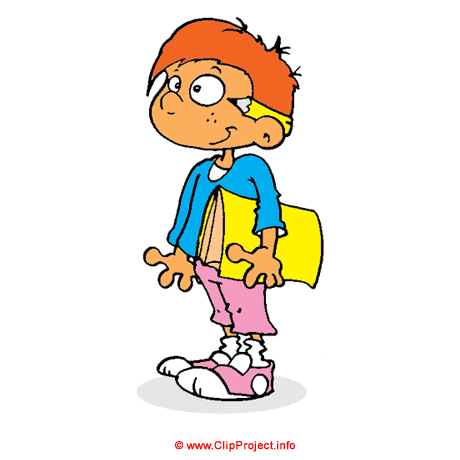


**S**

**Example 2**

Two students are given an assignment to determine the height of a nearby blimp. The measurements are shown in the diagram below. Determine the height of the blimp.

[](javascript:edit(3038))



**120 m**

**50o**

**45o**

**65o**