Math 1201: **ANSWERS** Review Sheet

1. Find the measure of  $\angle C$  to the nearest degree.



The angle of elevation of the top of a tree, T, is 27<sup>0</sup>.
From the same point on the ground, the angle of elevation of a hawk, H, flying directly above the tree is 43<sup>0</sup>. The tree is 12.7m tall. How high in the hawk above the ground, to the nearest tenth?



The height of the hawk above ground, HG = 23.2 m

 Two guy wires support a flagpole, FH. The first wire is 11.2m long and has an angle of inclination of 39<sup>0</sup>. The second wire has an angle of inclination of 47<sup>0</sup>. How tall is the flagpole to the nearest tenth?



The flagpole, FH = 9.3 m

4. A mountain climber is on top of a mountain 680 m high. The angles of depression of two points on opposite sides of the mountain are 48<sup>°</sup> and 32<sup>°</sup>. How long would a tunnel be that runs between the two points, to the nearest meter?

