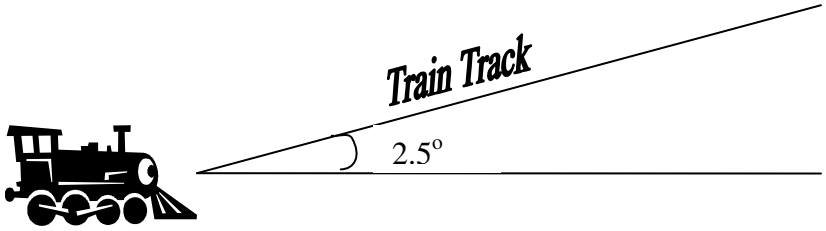
Name: _____ Period: _____ Date: _____

Geometry: Open Response **ALL work must be done in the grid below.**

1. A train is moving along a track that is elevated 2.5^{o} above the horizontal ground as shown below.



a. How far, in meters, must the train travel to reach an altitude 30 meters above the horizontal ground? Round your answer to the nearest tenth. Show your work.

b. If the train has traveled 750 meters before coming to a complete stop, how far, in meters, above the horizontal ground is the train? Round your answer to the nearest tenth. Show your work.