Triangulation

1. Calculate the height a satellite is above the ground using a scale model. The baseline used to observe the satellite was 250 km and the angles measured from the ends of the baseline were 40° and 65°.

2. An astronomer is practising triangulation. She measures a 125 m baseline along the edge of a field. She then measures the ends of the baseline to the top of a tree. She records the two angles to be 35° and 40°. Use the technique of triangulation to find the height of the tree.