

3. From a window 50.0 ft above the street, the angle of elevation to the top of the building across the street is 60.0° and the angle of depression to the base of this building is 10.0° . Find the height of the building across the street.

4. Radar stations A and B are on an east-west line, 8.6 km apart. Station A detects a plane at C , on a bearing of 53° . Station B simultaneously detects the same plane, on a bearing of 323° . Find the distance from B to C .

5. You need to find the height of a building. From a given point on the ground, you find that the angle of elevation to the top of the building is 74.2° . You then walk back 35 ft. From the second point, the angle of elevation to the top of the building is 51.8° . Find the height of the building.