

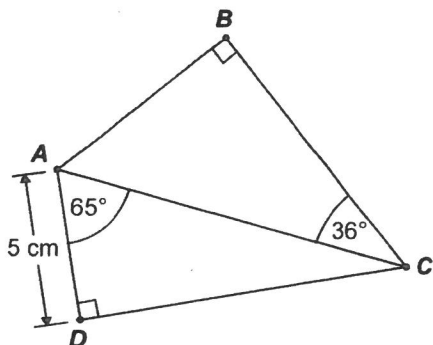
2 Solving Problems Involving More Than One Right Triangle

REVIEW



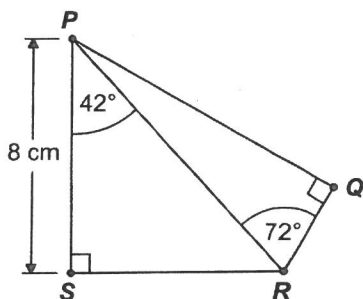
Skill Builder

- 1 Determine the length of \overline{AB} .



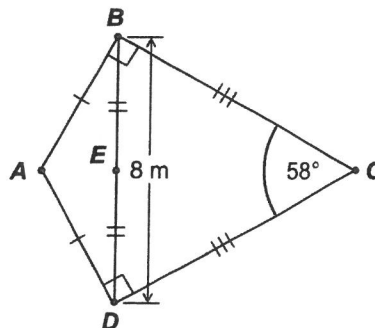
My Calculations

- 2 Determine the length of \overline{QR} .



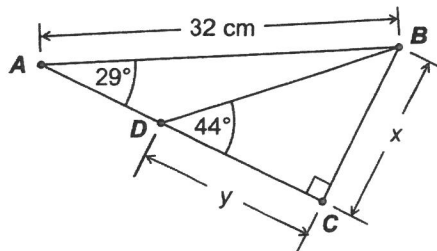
My Calculations

- 3 Determine the length of \overline{AC} .



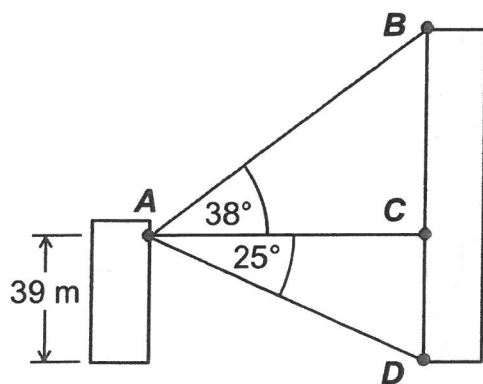
My Calculations

- 4 Determine the measure of every angle, then determine the lengths of side x and side y .



My Calculations

- 7** A surveyor stands at a window on the 9th floor of an office tower. She uses a clinometer to measure the angles of elevation and depression of the top and the base of a taller building. The surveyor sketches this plan of her measurements. Determine the height of the taller building to the nearest tenth of a metre.

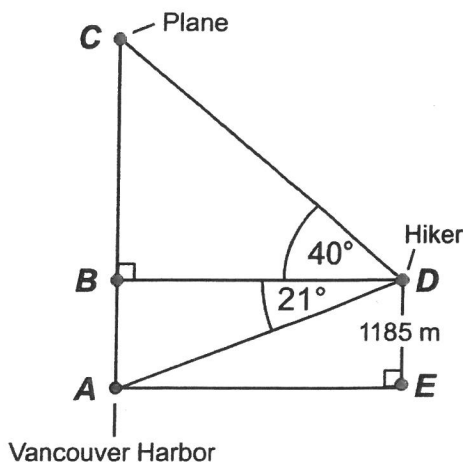


My Calculations

Blank grid area for calculations.

- 8** A hiker is at the top of Mt. Fromme near Vancouver. The angle of depression to the centre of the city is 21° and the angle of elevation to a plane overhead is 40° .

If Mt. Fromme has an elevation of 1185 m, what is the altitude of the plane?

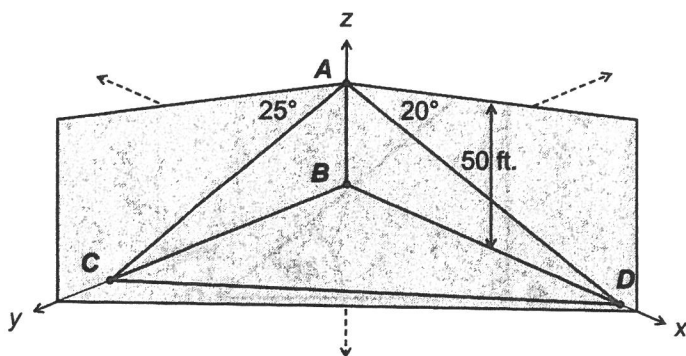


My Calculations

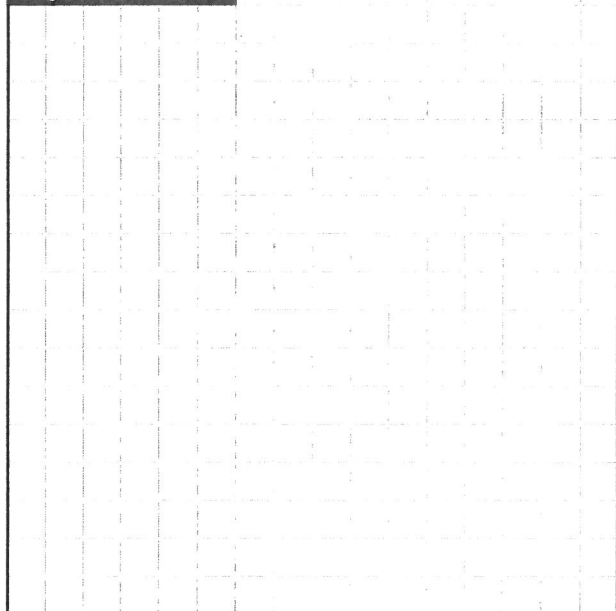
Blank grid area for calculations.

Skill Builder

- 9 A search boat (A), spots two shipwrecks at positions (C) and (D) on the lake bottom. The angle of depression is 25° to C, and 20° to D. If the water is 50 ft. deep, how far apart are the shipwrecks to the nearest foot?

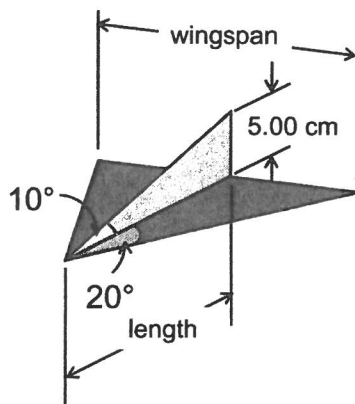


My Calculations



- 10 Nathan made a paper airplane similar to the one in the diagram below.

Given the dimensions shown in the diagram, calculate the length and wingspan.



My Calculations

