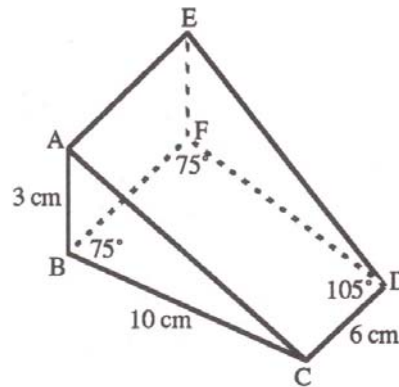


Apply site surveys and set out procedures to building and construction projects

WA-SIN W5904 - (BCGBC4018A)

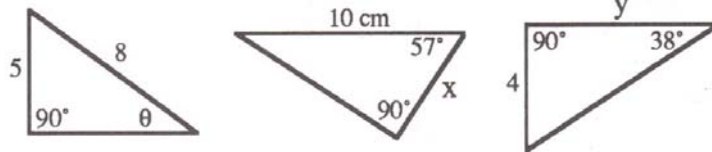
7. A builder measuring a site pegs a line 8.3 m up a 13° slope and then 5.6 m across, at right angles to the previous line. His third line is back to where he started.
- How long is this third line?
 - What angle to the horizontal does it make?

8. A tapered rubber door wedge as shown has $AB = 3$ cm, $BC = 10$ cm, $CD = 6$ cm and AB is perpendicular to BC . If $\angle BCD = \angle CDF = 105^\circ$ and $\angle CBF = \angle BFD = 75^\circ$ find:
- $\angle ACB$
 - the angle between the top face $ACDE$ and the base $BCDF$
 - length AE



Exercises (Review)

Use trigonometry to find the values of x and θ in these diagrams:



- Sketch $\triangle ABC$ with $\angle B = 90^\circ$, $b = 10$ cm and $c = 2.8$ cm.
- Calculate the length of side a .
- Determine, to the nearest degree, the sizes of the other two angles of the triangle.

A surveyor standing 600 m from the base of a vertical cliff measures the angle of elevation of the top as 13° . How high is the cliff?

Draw the plane sections obtained when each of the following objects is cut at the dotted line.

