

**MINING 6**

The accompanying drawing shows the outline of two skew bore-holes drilled from two points A and B.

The bore-hole at A has an actual inclination of  $60^\circ$  to the horizontal plane. It reveals the top and bottom surfaces of a stratum at distances of 35m and 100m, respectively from A.

The bore-hole at B has an actual inclination of  $50^\circ$  to the horizontal plane. It reveals the top and bottom surfaces of a stratum at distances of 45m and 95m, respectively from B.

(a) Determine the dip, strike and thickness of the stratum

(b) Another skew bore-hole at A is drilled in a south-westerly direction in plan

and has a true inclination of  $45^\circ$  to the bore-hole already drilled at A.

Determine the distance from A to the bottom of the stratum along this bore-hole.

