Intersections, perpendiculars and distance — Further practice

Year 7, lower volume • text pp. 1–8 • textbook lessons 1–4

Further practice 11

One angle is 82°. Find its vertically opposite angle; state the reason.

Further practice 12

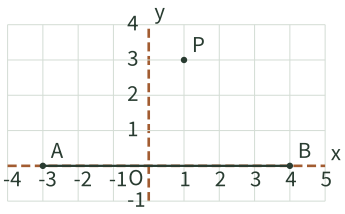
One angle is 151°. Find its adjacent supplementary angle; state the reason.

Further practice 13

One angle is 55°. Find its other part of the right angle; state the reason.

Further practice 14

On the coordinate grid, draw the perpendicular from P(1,3) to the horizontal line through A(−3,0), B(4,0). Label the foot H.



Use the labelled axes and unit grid.

Extension 15

A learner says PA=5 cm must be the distance to AB because A lies on AB. Use PH=3 cm, PH perpendicular to AB, to correct the claim.

Extension 16

Q lies on line AB. What is its distance to AB? Explain without inventing a positive gap.