

Extension Exercise

If you complete your work quickly attempt the activities below. Follow the step by step instructions on how to complete some basic geometry processes. You will need to refresh these skills when you have to develop the various components of the hipped roof.

Geometry

Construct a perpendicular at a given point on a straight line

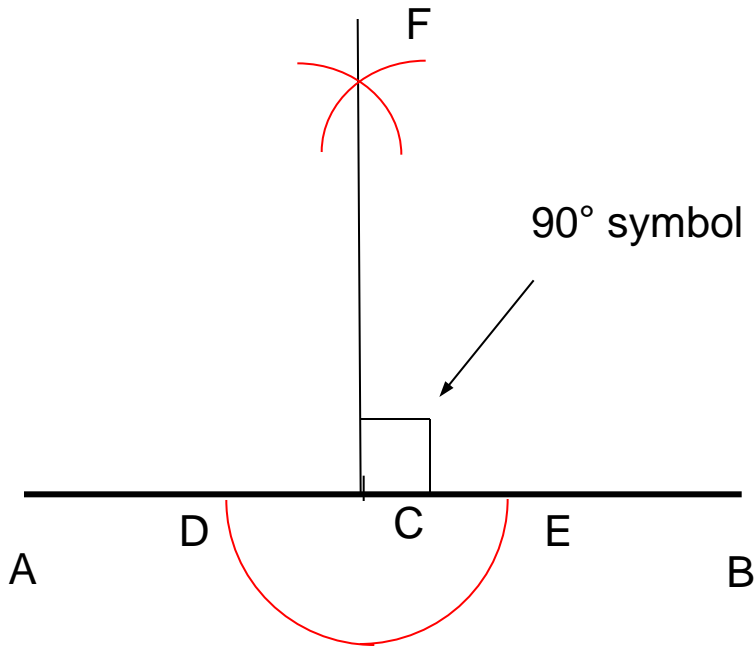
1. Draw the given line AB

2. Mark the given point C

3. With centre C and any convenient radius draw semi circle DE

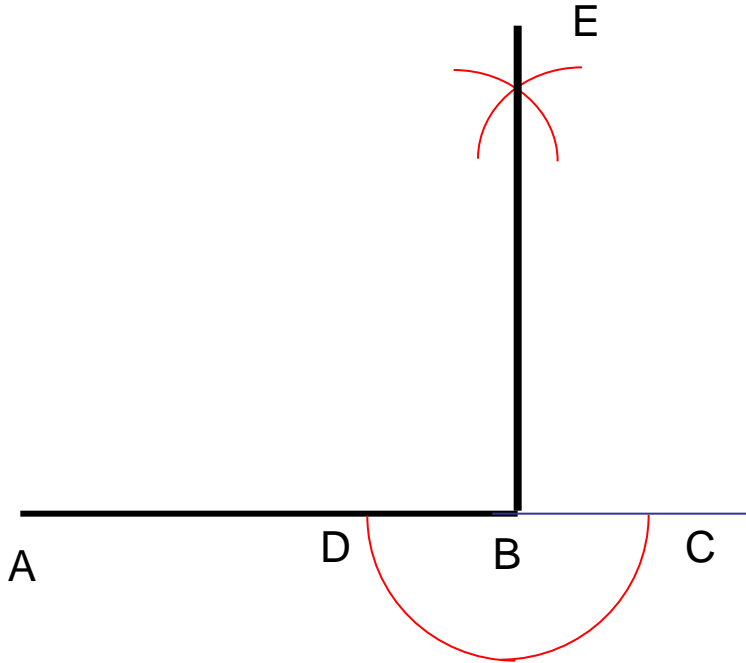
4. With centres D and E and any radius draw arcs to intersect at F

5. A line drawn from C through the intersection of the arcs is the perpendicular



Geometry

Construct a perpendicular at the end of a given line



1. Draw given line AB
2. Extend a construction line outwards from B
3. With centre B and any radius draw the semicircle CD
4. With centres C and D and any radius draw arcs to intersect at E
5. A line drawn from B through the intersection of the arcs is the perpendicular