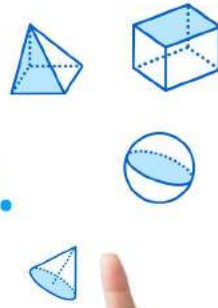


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# NCERT Solutions Class 6 Maths

## Chapter-14 Practical Geometry

### Exercise 14.4

**Q.1 Draw any line segment AB. Mark any point M on it. Through M, draw a perpendicular to AB. (use ruler and compasses)**

**Solution:**

With the help of a ruler and a [compass](#), we can draw a [line segment](#) by following steps:

Let us do construction step by step.

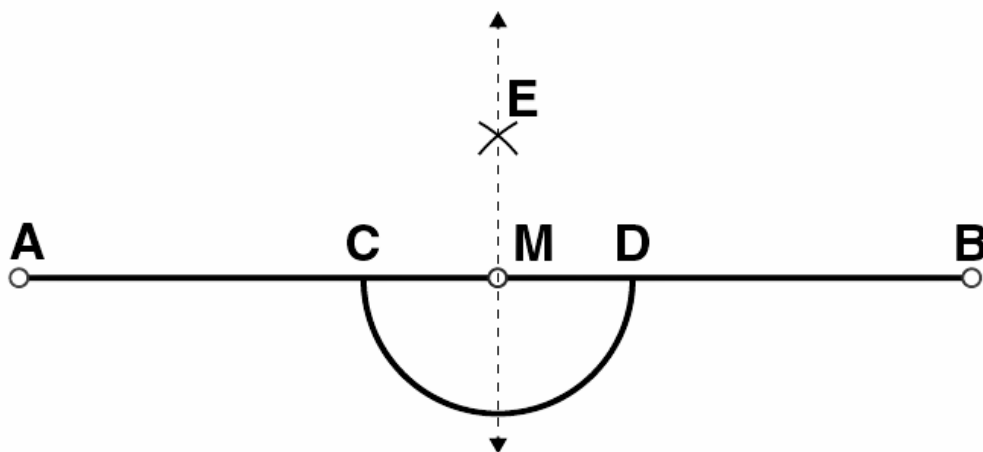
Step 1: First step is to draw a line segment AB and mark a point M on it.

Step 2: After that, we need to take M as centre and a convenient radius, and then construct an arc intersecting the line segment A at points C and D respectively

Step (3) Now, By taking centres as C and D and radius greater than CM, we need to construct two arcs such that they intersect each other at point E

Step (4) Last step is to join EM. Now

EM is perpendicular to AB



**Q.2 Draw any line segment PQ. Take any point R not on it. Through R, draw a perpendicular to PQ. (use ruler and set-square)**

**Solution:**

With the help of a ruler and a set-square, we can draw a [line segment](#).

Let us do construction step by step.

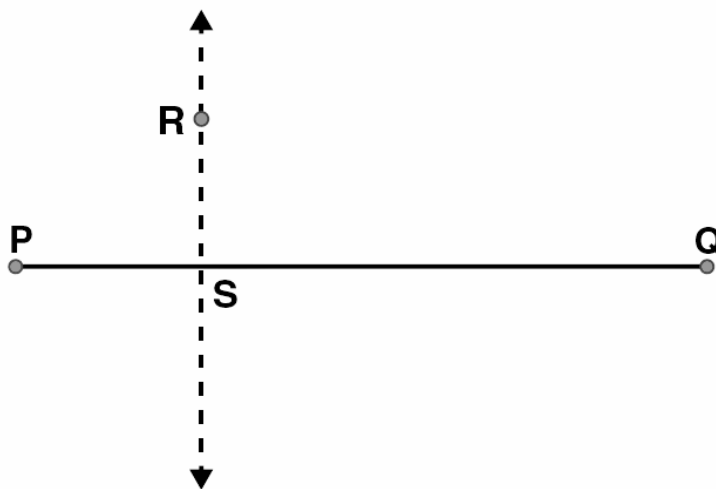
Step 1: First step is to draw a given line segment PQ and then mark a point R outside the line segment PQ. we can observe from the figure.

Step 2: Next step is to place a set square on PQ such that one of its right angles arm aligns along PQ

Step 3: Now, we need to place the ruler along the edge opposite to the right angle of the set square.

Step 4: Next step is to hold the ruler fixed and then slide the set square along the ruler such that the point R touches the other arm of the set square.

Step 5: Last step is to draw a line along this edge of the set square which passes through point R. Now, we got the required line perpendicular to PQ



**Q.3 Draw a line l and a point X on it. Through X, draw a line segment XY perpendicular to l.**

**Now draw a perpendicular to XY at Y. (use ruler and compasses)**

**Solution:**

With the help of a ruler and a [compass](#), we can draw a [line segment](#) by following steps:

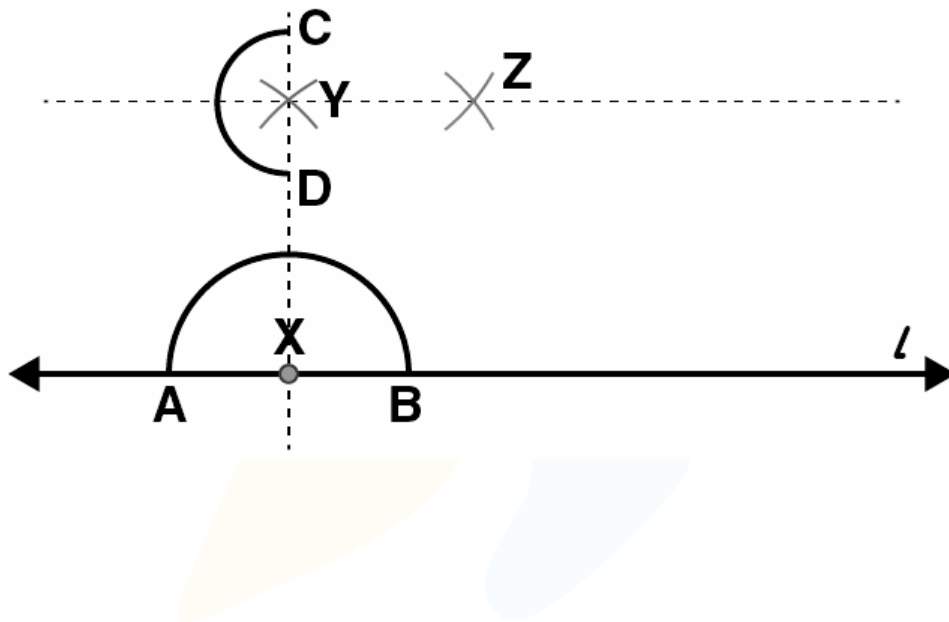
Let us do construction step by step.

Step 1: First step is to draw a line  $l$  and then mark a point  $X$  on it

Step 2: Now, we need to take  $X$  as a center and with a convenient radius, let's draw an arc intersecting the line  $l$  at points  $A$  and  $B$ , respectively

Step 3: After that, With  $A$  and  $B$  as centers and a radius more than  $AX$ , we need to construct two arcs such that they must intersect each other at point  $Y$ .

Step 4: Last step is to join  $XY$ . Here we got  $XY$  which is perpendicular to  $l$ . In the same way, by taking  $C$  and  $D$  as centers and radius more than  $CY$ , construct two arcs intersecting at point  $Z$ . Join  $ZY$ . The line  $ZY$  obtained is perpendicular to  $XY$  at  $Y$ .



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