

(4) Place the pointer on point A, without changing the setting of compasses, draw an arc to cut the line segment at B point.



 \overline{AB} is the required line segment

2. Given some line segment \overline{AB} , whose length you do not know, construct \overline{PQ} such that the length of \overline{PQ} is twice that of \overline{AB} . Solutions:

Following steps are followed to construct a line segment \overline{PQ} such that the length of \overline{PQ} is twice that of \overline{AB}

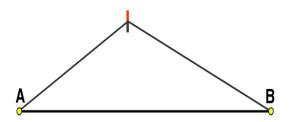
(1) Let the given line segment be \overline{AB}



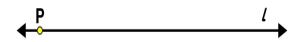
(2) Adjust the compasses up to the length of \overline{AB}



NCERT Solutions for Class 6 Maths Chapter 14 Practical Geometry



(3) Draw a line l and mark a point P on it



(4) Place the pointer on P, draw an arc to cut the line segment at point X, without changing the setting of compasses



(5) Again with same radius as before, by placing the pointer on point X, draw an arc to cut the line l at point Q



 \overline{PQ} is the required line segment.