## EXERCISE 14.3

1. Draw any line segment $\overline{P Q}$. Without measuring $\overline{P Q}$, construct a copy of $\overline{P Q}$.

Solutions:
(1) Let the given line segment be $\overline{P Q}$

(2) Adjust the compasses up to the length of $\overline{P Q}$

(3) Draw any line 1 and mark a point A on it

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


# NCERT Solutions for Class 6 Maths Chapter 14 Practical Geometry 

$\overline{A B}$ is the required line segment
2. Given some line segment $\overline{A B}$, whose length you do not know, construct $\overline{P Q}$ such that the length of $\overline{P Q}$ is twice that of $\overline{A B}$.

Solutions:
Following steps are followed to construct a line segment $\overline{P Q}$ such that the length of $\overline{P Q}$ is twice that of $\overline{A B}$
(1) Let the given line segment be $\overline{A B}$

(2) Adjust the compasses up to the length of $\overline{A B}$

(3) Draw a line 1 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

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(5) Again with same radius as before, by placing the pointer on point X , draw an arc to cut the line 1 at point Q

$\overline{P Q}$ is the required line segment.

