

CHAPTER – 14

Practical Geometry

EXERCISE – 14.3

Q. 1

Draw any line segment PQ. Without measuring \overline{PQ} , construct a copy of \overline{PQ} .

Answer:

Steps of Construction-

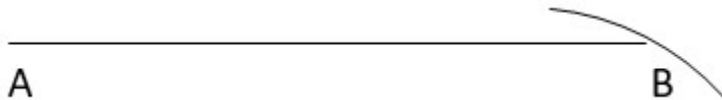
1. Draw a line segment PQ.



2. Keep the needle of compass on P and other end of it on Q.

3. Draw point A. Put the needle of compass on A and draw an arc, naming it as B. Join A and B.

4. Hence, AB is the copy of PQ.



Q. 2

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

Answer:

Steps of Construction-

1. Draw a line segment AB .



2. Keep the needle of compass on A and other end of it on B.

3. Draw point P. Put the needle of compass on P and draw an arc, naming it as R. Again draw an arc by putting the needle on R such that PR extends to Q.

4. Hence, PQ is the twice of AB .

