

Mathematics

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(Chapter – 5) (Introduction to Euclid’s Geometry)(Exemplar Problems)
(Class – IX)

Exercise 5.3

Solve each of the following question using appropriate Euclid’s axiom:

Question 3:

Look at the Fig. 5.3. Show that length $AH >$ sum of lengths of $AB + BC + CD$.



Fig. 5.3.

Answer 3:

From the given figure, we have

$$AB + BC + CD = AD$$

[AB, BC and CD are the parts of AD]

Here AD is also the parts of AH.

According to Euclid’s axioms, the wholes is greater than the part.

i.e., $AH > AD$

So, Length $AH >$ sum of the length of $AB + BC + CD$.

