

Mathematics

(www.tiwariacademy.net)

(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 2:

It is known that $x + y = 10$ and that $x = z$. Show that $z + y = 10$?

Answer 2:

We have,

$$x + y = 10$$

and $x = z$ (i)

According to Euclid’s axioms, if equals are added to equals, the wholes are equal.

So, from statement (i), we get(ii)

$$x + y = z + y$$
(iii)

From equation (i) and (iii), we get

$$z + y = 10$$

