



Ncert Solutions Class 10 Quadratic Equations Exercise 4.3

3. Is it possible to design a rectangular mango grove whose length is twice its breadth, and the area is 800 m²? If so, find its length and breadth.

Solution:

Let breadth of rectangular grove = x m and length of rectangular grove = 2x m

ATQ:-
$$x (2x) = 800$$
 \Rightarrow $2x^2 = 800$
 \Rightarrow $x = \pm 20$

- ∴ breadth of rectangular grove = 20 m [∵ breadth can never be –ve]
- & length of rectangular grove = 2x = 40 m.
- it is possible to design rectangular mango grove.