Answer on Question#43029-Math-Geometry
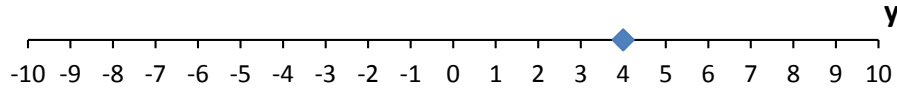
Question

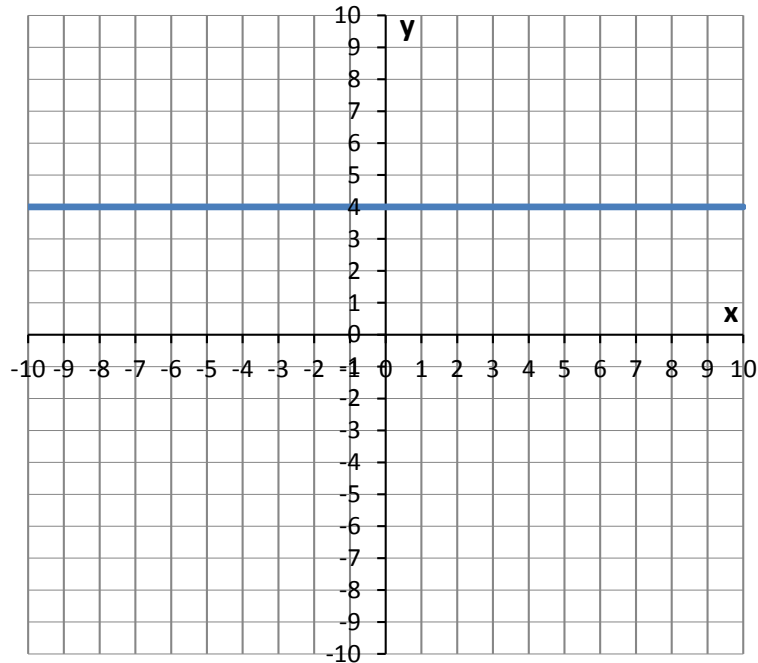How do you graph this point y = 4

Answer

There are 3 possible cases of graphing y = 4.

In **1-dimentional space** (line) it is graphed as a point (marked by blue rhombus in figure below)

In **2-dimentional space** (plane) in rectangular coordinates (Cartesian coordinates) **y = 4** is graphed as a straight horizontal line (blue line in figure below). The expression **y = 4** means that **y** does not depend on **x** and is equal 4 whatever **x**.

In **3-dimentional space** (volume) in rectangular coordinates **y = 4** is graphed as a flat plane parallel to **x-z** surface. The expression **y = 4** in this case means that **y** does not depend on **x** and **z** and is equal 4 whatever **x** and **z**.