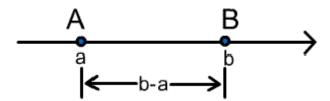
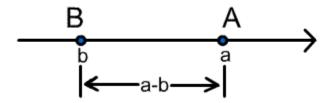
Dear Student,

In the figure below the distance between A and B is (b-a) for b>a



Now if a>b, then the distance between A and B will be (a-b)



From the above two results we can write as a-b = -(b-a) = |b-a|. Because the distance between any two points always positive.