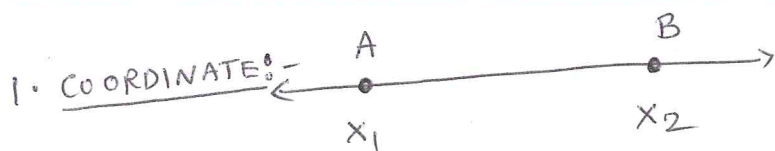
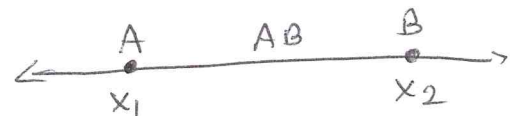
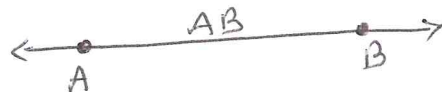


1.2. SEGMENTS AND CONGRUENCE:- MR. REDDY'S NOTE



A, B are called Names of points.
 x_1, x_2 are called co-ordinates of points

2. DISTANCE:- THE DISTANCE BETWEEN POINTS 'A' AND 'B' WRITTEN AS AB, IS THE ABSOLUTE VALUE OF THE DIFFERENCE OF THE CO-ORDINATES OF 'A' AND 'B'.



$$AB = |x_2 - x_1|$$

3. FINDING LENGTHS:-

a) HORIZONTAL SEGMENT:- FIND THE ABSOLUTE VALUE OF THE DIFFERENCE OF THE x-coordinates of the end points.

EX:- J(-3, 4), K(2, 4) Find \overline{JK}

$$JK = |2 - (-3)| = 5.$$

b) VERTICAL SEGMENT:- Find the ABSOLUTE VALUE OF THE DIFFERENCE OF THE y-coordinates of the end points.

EX:- L(1, 3) M(1, -2) Find \overline{LM}

$$LM = |-2 - 3| = 5.$$

4. Lengths are equal
CONGRUENT: $\overline{JK} \cong \overline{LM}$

$$JK = LM$$

BUT Segments are
[\cong MEANS CONGRUENT]