b) the distance from (2,5) is

$$d = \sqrt{(2-4)^2 + (5-5)^2}$$

$$d = \sqrt{(-2)^2}$$

$$d = 2$$

∴ As from the distance above it is cleare that position for Node B is (2,6) as the distance from both the beacons is less than 2 where this is not the case with position (4,5). Hence position of B is (2,6).

* In Addition this can also be verified be Node Centroid theory.

• the centroid for the two beacon for Node A is

$$= \frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}$$

$$= \frac{4+2}{2}, \frac{5+2}{2}$$

$$= (3, 3.5)$$

∴ the position of Node A is (3, 3.5)