

Suppose point j has coordinate of -2 and JK=4. Then what is the possible coordinate(s) for K?

**Solution:**

Write formula for length of the segment:

$$D=|x_2 - x_1|$$

$$x_1 = -2$$

$$D=4$$

Consider the two cases:

- 1)  $x_2 - x_1 = 4$   
 $x_2 = 2$
- 2)  $x_2 - x_1 = -4$   
 $x_2 = -6$

**Answer: 2;-6.**