

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.