

Answer on Question # 41652– Math - Geometry

Suppose point j has coordinate of -2 and $|j-k|=4$ then what is the possible coordinate(s) for k? a)4, b)2 or -4, c)-4, d) 2 or -6

Solution:

Since, $|j-k|=|j-k|$, then

$$|-2 - k| = 4,$$

$$|2 + k| = 4$$

$$2 + k = 4 \quad \text{or} \quad 2 + k = -4$$

$$k = 2 \quad \text{or} \quad k = -6.$$

Answer: d) 2 or -6.