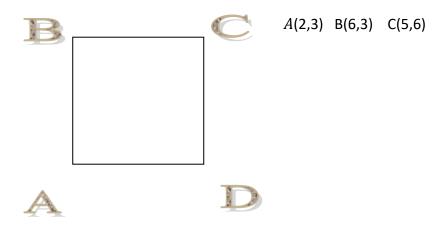
## Question #72553, Math / Algebra | Completed

1)The points A, B and x have coordinates (2,3) (6,3) and (5,6) respectively A)The figure ABCD is a square find coordinates of the point D

## Solution



If ABCD is a square, then it is a parallelogram. Consequently, the diagonals of the parallelogram intersect and at the intersection are divided into halves.

We will calculate the point O - the intersection of the diagonals. It is the middle of the section AC.

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

O(x,y)

$$x = \frac{5+2}{2}$$

$$y = \frac{6+3}{2}$$

We will calculate the point D

O s the midpoint of the BD

$$3,5 = \frac{6+a}{2}$$

$$4,5 = \frac{3+b}{2}$$

Answer D(1,6)

Answer provided by AssignmentExpert.com