

Answer on Question #81351 - Math - Geometry

Coordinates of B are equal to coordinates of A plus coordinates of v_1 . Coordinates of C are equal to coordinates of A plus coordinates of $v_1 + v_2$. Coordinates of D are equal to coordinates of A plus coordinates of v_2 . The lengths of AB and CD are equal to the length of v_1 , the lengths of BC and AD are equal to the length of v_2 . The coordinates of the midpoint of AC are equal to the coordinates of A plus coordinates of $\frac{v_1+v_2}{2}$, the coordinates of the midpoint of BD are also equal to the coordinates of A plus coordinates of $\frac{v_1+v_2}{2}$.