

Writing a Coordinate Proof

Given: $\angle B$ is a right angle in $\triangle ABC$. D is the midpoint of \overline{AC} .

Prove: The area of $\triangle DBC$ is one half the area of $\triangle ABC$.

Step 1 Assign coordinates to each vertex.

The coordinates of A are $(0, 2j)$,

the coordinates of B are $(0, 0)$,

and the coordinates of C are $(2n, 0)$.

Since you will use the Midpoint Formula to find the coordinates of D , use multiples of 2 for the leg lengths.

Step 2 Position the figure in the coordinate plane.

Step 3 Write a coordinate proof.

Proof: $\triangle ABC$ is a right triangle with height $2j$ and base $2n$.

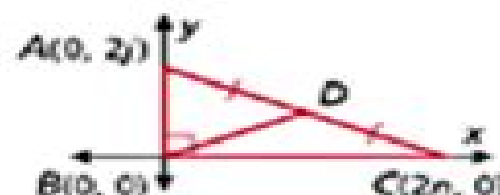
$$\begin{aligned}\text{area of } \triangle ABC &= \frac{1}{2}bh \\ &= \frac{1}{2}(2n)(2j) \\ &= 2nj \text{ square units}\end{aligned}$$

By the Midpoint Formula, the coordinates of $D = \left(\frac{0+2n}{2}, \frac{2j+0}{2}\right) = (n, j)$.

The height of $\triangle DBC$ is j units, and the base is $2n$ units.

$$\begin{aligned}\text{area of } \triangle DBC &= \frac{1}{2}bh \\ &= \frac{1}{2}(2n)(j) \\ &= nj \text{ square units}\end{aligned}$$

Since $nj = \frac{1}{2}(2nj)$, the area of $\triangle DBC$ is one half the area of $\triangle ABC$.



4. Use the information in Example 4 to write a coordinate proof showing that the area of $\triangle ADB$ is one half the area of $\triangle ABC$.

Practice A Introduction To Coordinate Proof 4 7 Key

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