



PROOFS USING COORDINATE GEOMETRY



OUTLINE

✓ EXAMPLE #1

✓ EXAMPLE #2

THEOREM:

The midpoint of the hypotenuse of a right triangle is equidistant from the three vertices.

Given:

$\triangle ABC$ is a right triangle

M is the midpoint of $\overline{BC}$

Prove:

$AM = BM = MC$

EXAMPLE #1

Coordinate Proof:

- Use the Midpoint Formula to find the coordinates of M .

$$M\left(\frac{0+2a}{2}, \frac{2b+0}{2}\right) = M\left(\frac{2a}{2}, \frac{2b}{2}\right) = M(a, b)$$

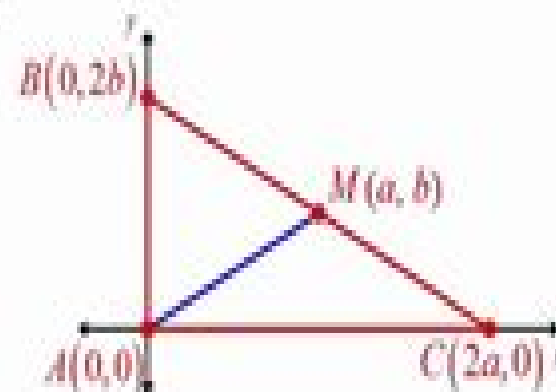
- Use the Distance Formula to find the values of AM , BM , and MC .

$$AM = \sqrt{(a-0)^2 + (b-0)^2} = \sqrt{a^2 + b^2}$$

$$BM = \sqrt{(a-0)^2 + (b-2b)^2} = \sqrt{a^2 + (-b)^2} = \sqrt{a^2 + b^2}$$

$$MC = \sqrt{(2a-a)^2 + (0-b)^2} = \sqrt{a^2 + (-b)^2} = \sqrt{a^2 + b^2}$$

Since $AM = BM = MC$, the midpoint of the hypotenuse is equidistant from the vertices of the right triangle.



Holt Geometry Introduction To Coordinate Proof

Arno Jaeger



Holt Geometry Introduction To Coordinate Proof:

Holt Geometry ,2001 *Geometry in the Mathematics Curriculum* National Council of Teachers of Mathematics,1973

Laboratory Manual for Elementary Mathematics ,1969 *An Introduction to Mathematics*, by A. N. Whitehead

Alfred North Whitehead,1911 **Introduction to Analytic Geometry and Linear Algebra** Arno Jaeger,1960 Topics in Geometry Robert Bix,2014-06-28 This volume presents an accessible self contained survey of topics in Euclidean and non Euclidean geometry It includes plentiful illustrations and exercises in support of the thoroughly worked out proofs The author s emphasis on the connections between Euclidean and non Euclidean geometry unifies the range of topics covered The text opens with a brief review of elementary geometry before proceeding to advanced material Topics covered include advanced Euclidean and non Euclidean geometry division ratios and triangles transformation geometry projective geometry conic sections and hyperbolic and absolute geometry Topics in Geometry includes over 800 illustrations and extensive exercises of varying difficulty **Introductory Calculus, with Analytic Geometry** Edward Griffith Begle,1960 The English Catalogue of Books [annual]. ,1964 Vols 1898 include a directory of publishers **Geometry** Rolland Ryther Smith,James F. Ulrich,1964 **Integrated Mathematics** Holt McDougal,1998

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