

*Objective:

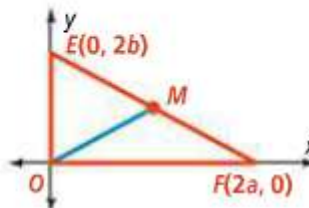
Problem 1 Writing a Coordinate Proof

Use coordinate geometry to prove that the midpoint of the hypotenuse of a right triangle is equidistant from the three vertices.

Given: $\triangle OEF$ is a right triangle.

M is the midpoint of \overline{EF} .

Prove: $EM = FM = OM$

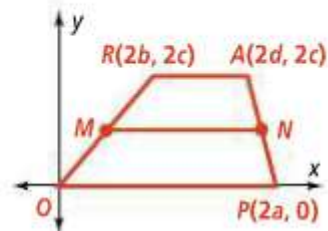


Problem 2 Writing a Coordinate Proof

Write a coordinate proof of the Trapezoid Midsegment Theorem.

Given: \overline{MN} is the midsegment of trapezoid $ORAP$.

Prove: $\overline{MN} \parallel \overline{OP}$, $\overline{MN} \parallel \overline{RA}$, $MN = \frac{1}{2}(OP + RA)$



Inclass: p. 414 #4

Homework: p. 414 #5

Interactmath: #4, 5