

Prove that, for any equilateral triangle, the median is also the height.

Hypothesis:

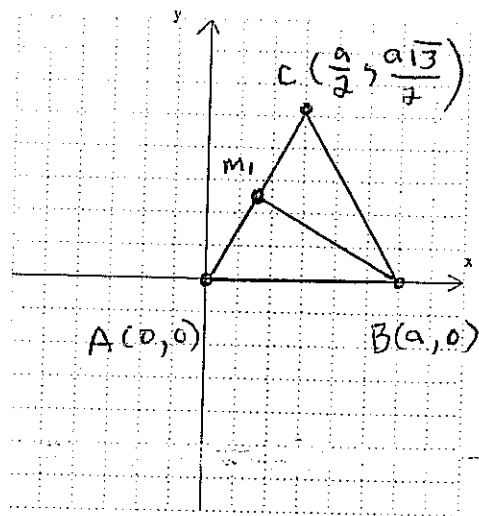
ABC is an equilateral triangle

$A(0,0)$

$B(a,0)$

$C\left(\frac{a}{2}, \frac{a\sqrt{3}}{2}\right)$

$M_1$  is a midpoint



Conclusion:  $\overline{BM_1} \perp \overline{AC}$

Statements

Justification