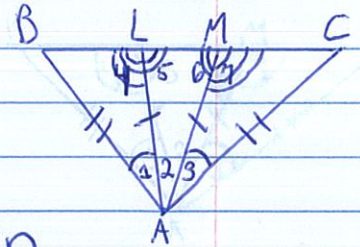


Adeline Lusk
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25. Given: $\angle 4 \cong \angle 7$, $\angle 1 \cong \angle 3$
Prove: $\triangle ABC$ is isosceles



$\angle 4 \cong \angle 7$, $\angle 1 \cong \angle 3$	Given
$\angle 4$ and $\angle 5$, $\angle 6$ and $\angle 7$ are suppl.	Def. of suppl. \angle 's
$\angle 5 \cong \angle 6$	Congru. Suppl. Thm.
$\overline{LA} \cong \overline{MA}$	Base \angle 's Thm. Conv.
$\triangle BLA \cong \triangle CMA$	ASA \cong
$\overline{BA} \cong \overline{CA}$	CPCCTC
$\triangle ABC$ is isosceles	Def. of isosceles \triangle