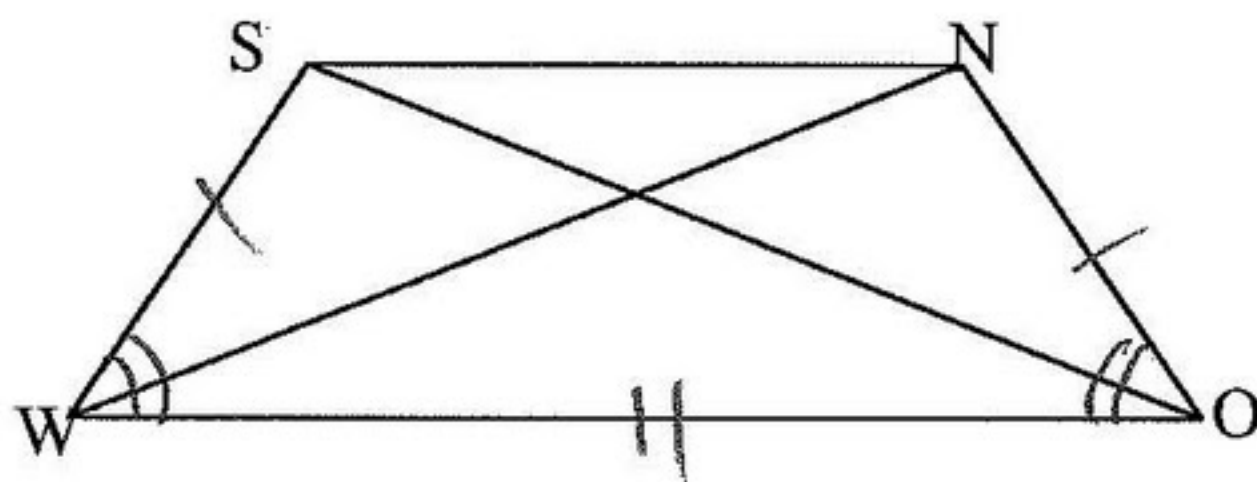


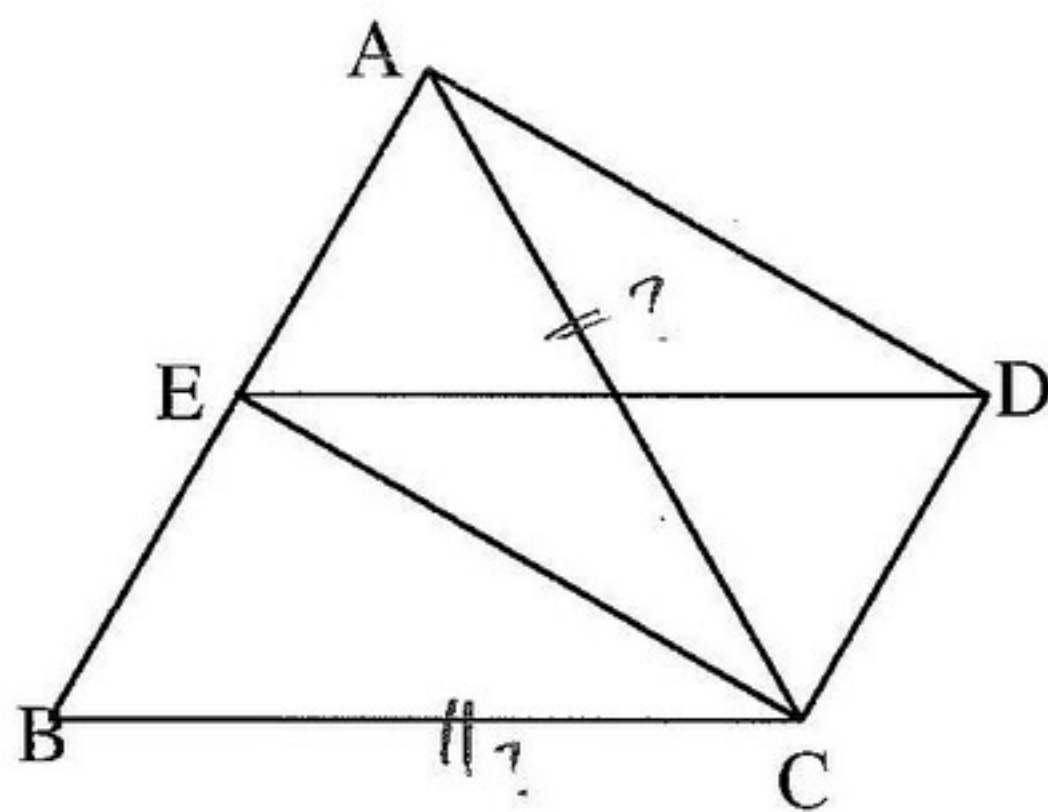
12. The diagonals of an isosceles trapezoid are congruent. Use the diagram below to prove this conjecture.

Given that quadrilateral $SNOW$ is an isosceles trapezoid, prove that $SO \cong NW$.



$SW \cong NO$	isosceles $\square$ bases
$\angle SWO \cong \angle NOW$	isosceles $\square$ base angles
$WO \cong WO$	reflexive
$\triangle SWO \cong \triangle NOW$	SAS
$SO \cong NW$	CPCTC

13. (Stretch...but not really, if you separate the shapes...) Given that $BCDE$ is a parallelogram and $ADCE$ is a rectangle, prove that $AC \cong BC$.



{	$AC \cong DE$	diagonals of a $\square$
	$BC \cong ED$	opp. sides of a $\square$
	$AC \cong BC$	transitive