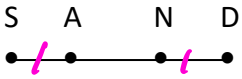
Proving Segments

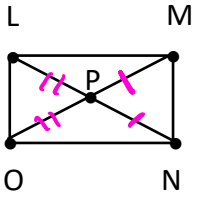
Hw Section 2.3 part 2

1. Given $\overline{SA} \cong \overline{ND}$
   Prove $\overline{SN} \cong \overline{AD}$



	Statement	Reason
a.	$\overline{SA} \cong \overline{ND}$	Given
b.	$SA = ND$	Def'n of $\cong$ segments
c.	$SN = SA + AN$ $AD = AN + ND$	Seg't Add'n Postulate
d.	$SN = ND + AN$	Substitution PoE
e.	$SN = AD$	Substitution PoE
f.	$\overline{SN} \cong \overline{AD}$	Def'n of $\cong$ segments

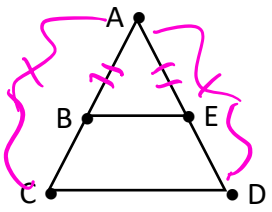
2. Given $MP = NP$
   $PO = PL$
   Prove $MO = NL$



	Statement	Reason
a.	$MP = NP$ $PO = PL$	Given
b.	$MO = MP + PO$ $NL = NP + PL$	Segment Add'n Postulate
c.	$MO = NP + PL$	Substitution PoE
d.	$MO = NL$	Substitution PoE
e.		
f.		

3. Given $AC = AD$
$AB = AE$

Prove $BC = ED$



	Statement	Reason
a.	$AC = AD$, $AB = AE$	a. Given
b.	$AC = AB + BC$, $AD = AE + ED$	b. Seg't Add'n Postulate
c.	$AB + BC = AE + ED$	c. Substitution PoE
d.	$AE + BC = AE + ED$	d. Substitution PoE
e.	$BC = ED$	e. Subtraction PoE
f.		f.