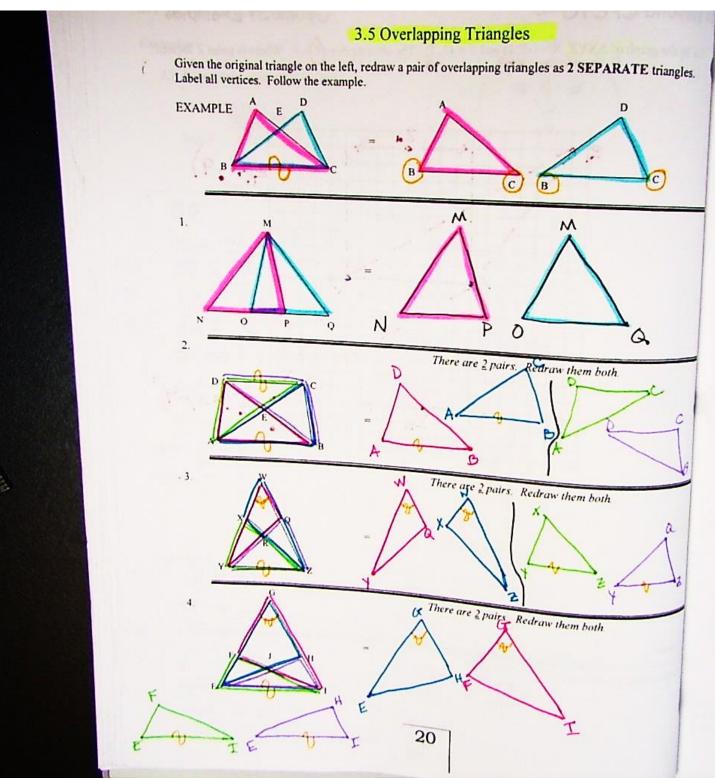
3.5 Notes: "Overlapping Triangles"



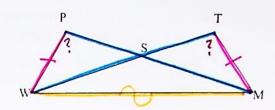
3.5 Overlapping Triangles

Geometry Examples

Class Examples (I do, We do):

1) Proof from TE pg. 138 class opener.

Given: $\overrightarrow{PW} \cong \overrightarrow{TM}$, $\overrightarrow{PM} \cong \overrightarrow{TW}$ Prove: $\angle P \cong \angle T$



Statements	Reasons	
1. PW = TM	(5)	1. Given
2. PM ~ TW	(5)	2. Given
3. WM = WM	(5)	3. Reflexive Prop.
4 DPWM = DTMV	VK	4. SSS (1,2,3)
S AP = AT		5. CPCTC

2) Pro.	of from TE pg. 142 class	opener. F	F
Given: $\underset{FD}{\angle F}$	FCA = LFDB = FC	X	- F
Prove: AD	$\cong \overline{BC}$		₹ B
		PA	E 1.
		/	D C

Statements	Reasons
LFCA = LFDB (A)	1. Given
FD = FC (5)	2. Given
3 AF = AF (A)	3. Reflexive Property
⁴ ΔFDB ≅ ΔFCA	4. ASA (1, 2, 3)
FB = FA	5. CPCTC
" AD & BC	". Subtraction Property