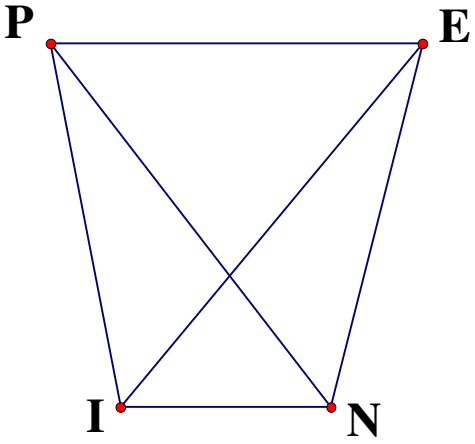
Sample Quiz 5.5 & 5.6

1) Provide a short argument that demonstrates whether or not the segments or angles indicated are congruent. Clearly indicate which triangles are congruent and why. **MARK THE FIGURE!**

PI = NE; $\angle PIN \cong \angle INE$. Is PN = IE? Why?

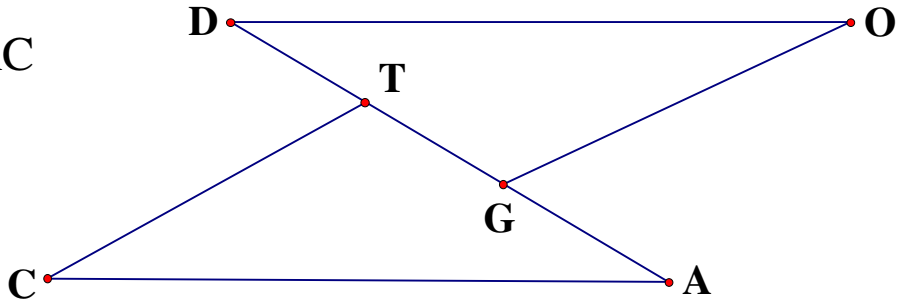


2) What does "CPCTC" stand for? Explain.

3) Provide each ***numbered*** missing reason or statement in the proof.

Given: $\overline{DO} \parallel \overline{AC}$; DO = AC
$\angle O \cong \angle C$

Prove: $\overline{TC} \cong \overline{OG}$



$\overline{DO} \parallel \overline{AC}$	→	$\angle A \cong \angle D$	→	
1._____		4._____		
DO = AC	→	5. Δ ≅ Δ	→	7.
2._____		6._____		CPCTC
3.				
Given				

Answers provided on the next page…..

Answers:

1) Since IN = IN, ΔPIN is congruent to ΔENI by SAS. PN = IE since Corresponding Parts of Congruent Δs are Congruent.

2) Look it up from lesson 5.5!!!!!!!!!

3)
1. Given
2. Given
3. $\angle O \cong \angle C$
4. AIA conjecture (If two || lines are cut by a transversal, then the Alternate Interior Angles are equal.)
5. Δ DOG ≅ Δ ACT
6. ASA conjecture
7. $\overline{TC} \cong \overline{OG}$ (Remember…… the last statement in EVERY PROOF is **ALWAYS** want you wanted to **show/prove**!!)