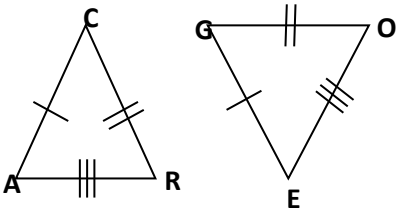
SOUTH GEO DAY 8 – UNIT 3B REVIEW

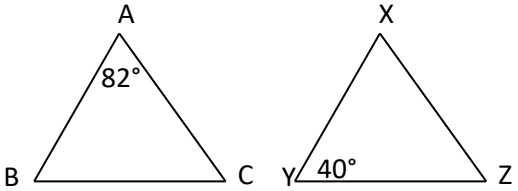
LEVELS PRACTICE

LEVEL ONE

1. Write a congruency statement for the following triangles: △_____ ≅ △_____



2. : Given △ABC ≅ △XZY, find the measure of ∠B.



2. Given △MON ≅ △DAY, then …

a) ∠A ≅ _____

b) $\overline{AD}$ ≅ _____

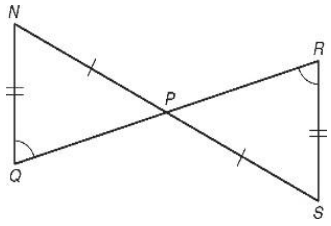
3. List the three transformations that are isometries (figures stay congruent) _____

LEVEL TWO

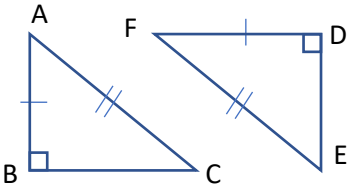
List the FIVE ways to prove triangles congruent:

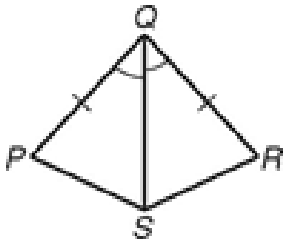
Write the postulate that proves the triangles congruent (if possible) and name the congruent triangles. If they are not congruent, write NOT CONGRUENT.

1.



2.





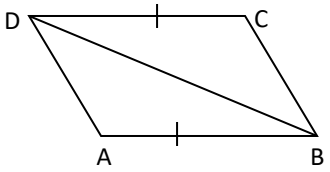
1. ΔNQP ≅ _____ by _____

2. ΔABC ≅ _____ by _____

3. ΔPQS ≅ _____ by _____

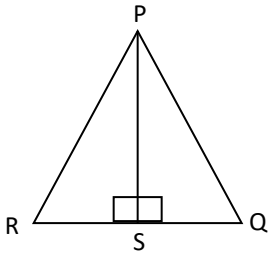
What is the missing piece of information to prove the triangles congruent by the given postulate.

4. Prove by SAS



Missing congruent parts:

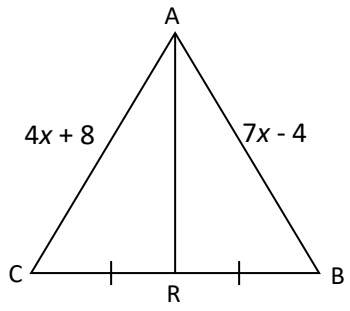
5. Prove by HL



Missing congruent parts:

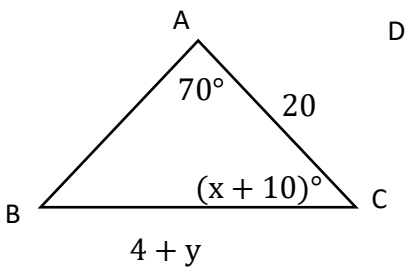
Level Three

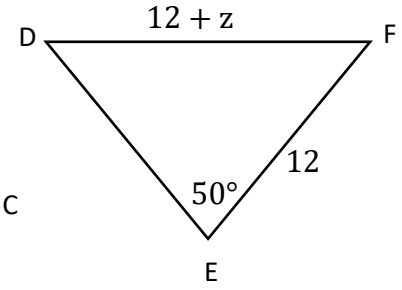
4. Given △CAR ≅ △BAR, find x.



5. Given: $\triangle ABC \cong \triangle DEF$

Find x, y, z.





Level Four

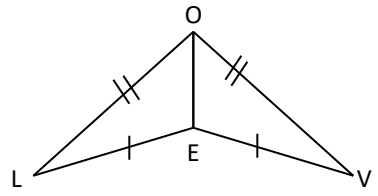
PROOFS! WOOHOOO!

1. What does CPCTC stand for? _____

2. Given: $\overline{LO} \cong \overline{VO}$

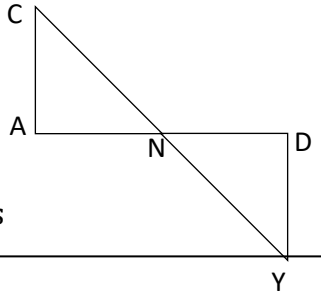
   $\overline{LE} \cong \overline{VE}$

   Prove: △LEO ≅ △VEO



Statements	Reasons

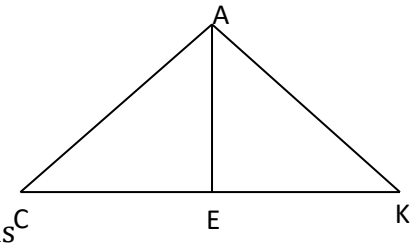
3. Given: ∠C ≅ ∠Y
N is the midpoint of CY



Prove: $\overline{AN} \cong \overline{DN}$

Statements	Reasons

3. Given: △CAK is isosceles with base CK
∠CEA and ∠KEA are right angles
Prove: △CEA ≅ △KEA



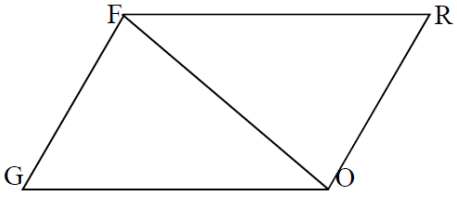
Statements	Reasons

Level Five

1) Given: $\overline{GO} \cong \overline{RF}$

∠GOF ≅ ∠RFO

Prove: $\overline{FG} \,||\, \overline{RO}$



Statements	Reasons