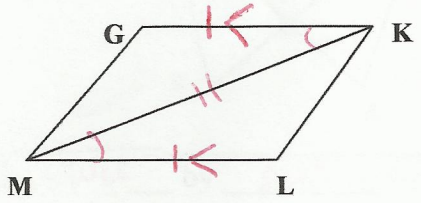
GEOMETRY Worksheet
≅Δs Worksheet II

NAME KEY
DATE _____ PERIOD _____

Write Δ congruence (if possible) and tell which postulate (SSS, SAS, ASA, or AAS) you are using.

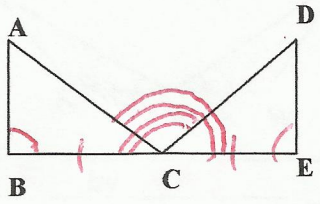
1. ΔGKM≅Δ LMK by SAS

$\overline{GK} \parallel \overline{ML}$
GK≅ML



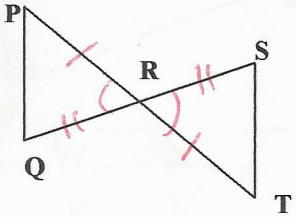
2. ΔABC≅Δ DEC by ASA

∠B ≅ ∠E
C is midpoint of $\overline{BE}$
∠DCB≅∠ECA



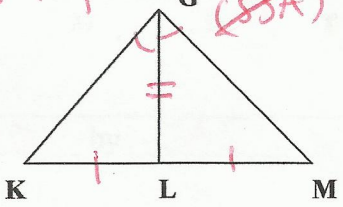
3. ΔPRQ≅Δ TRS by SAS

R is midpoint of
both PT and QS



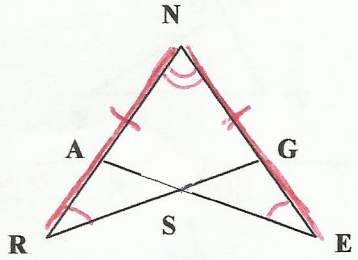
4. ΔKLG≅Δ _____ by _____

GL bisects KM Not possible (SSA)
GL bisects ∠KGM



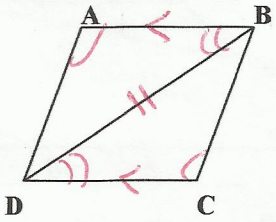
5. ΔRNG≅Δ ENA by ASA

RN ≅ NE
∠R ≅ ∠E



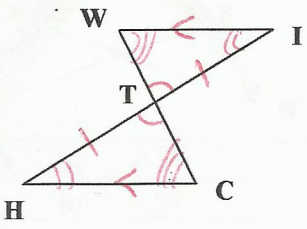
6. ΔDAB≅Δ BCD by AAS

AB || DC
∠A ≅ ∠C



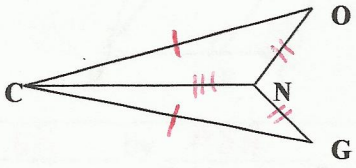
7. ΔWIT≅Δ CHT by ASA or AAS

T is midpt. of HI
WI || HC



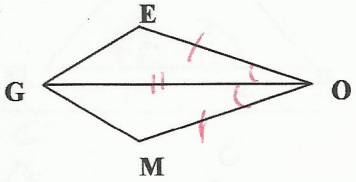
8. ΔCON≅Δ CGN by SSS

CO ≅ GC
ON ≅ NG



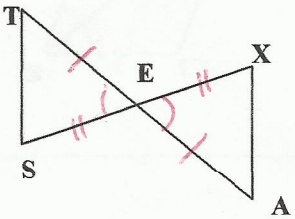
9. ΔGEO≅Δ GMO by SAS

OG bisects ∠EOM
EO ≅ MO



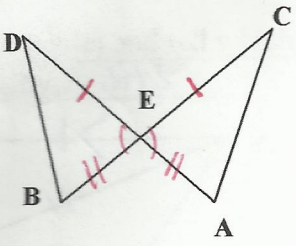
10. ΔTES ≅Δ AEX by SAS

E is midpoint of both
TA and SX
TS ≅ AX



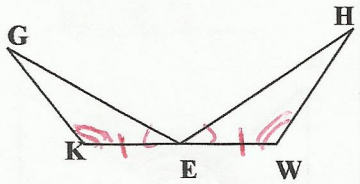
11. $\Delta DEB \cong \Delta$ CEA by SAS

DE ≅ EC
BE ≅ AE



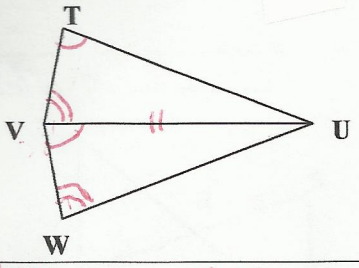
12. $\Delta KEG \cong \Delta$ WEH by ASA

E is midpoint of KW
∠KEG ≅ ∠WEH
∠K ≅ ∠W



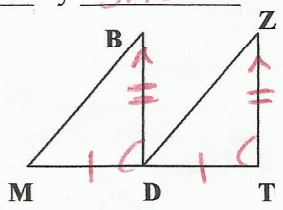
13. $\Delta TVU \cong \Delta$ VWU by AAS

∠VTU ≅ ∠UVW
∠ TVU ≅ ∠UWV



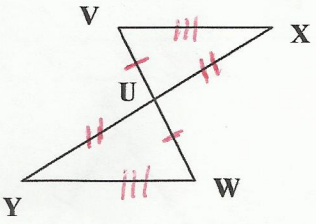
14. $\Delta MDB \cong \Delta$ DTZ by SAS

D is midpoint of MT
BD ≅ ZT
$\overline{BD} \parallel \overline{ZT}$



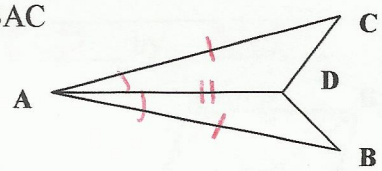
15. $\Delta WUY \cong \Delta$ VUX by SSS

U is midpoint of both YX and WV
WY ≅ VX



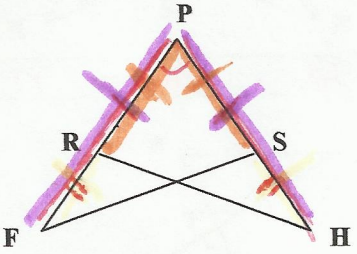
16. $\Delta BAD \cong \Delta$ CAD by SAS

AD bisects ∠BAC
BA ≅ CA



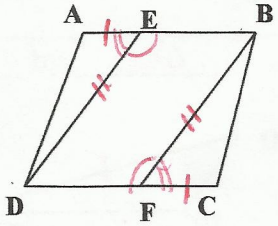
17. $\Delta PFS \cong \Delta$ PHR by SAS

FP ≅ HP
RF ≅ SH



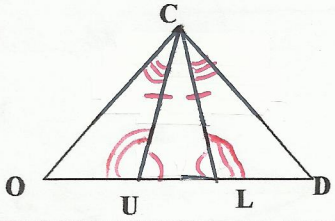
18. $\Delta AED \cong \Delta$ CFB by SAS

AE ≅ FC
DE ≅ FB
∠BED ≅ ∠DFB



19. $\Delta COL \cong \Delta$ CDU by ASA
$\Delta COU \cong \Delta$ CDL by ASA

∠CUD ≅ ∠CLO
CU≅CL
∠OCU≅∠DCL



20. $\Delta ABD \cong \Delta$ CDB by ASA

AB || DC
AD || BC