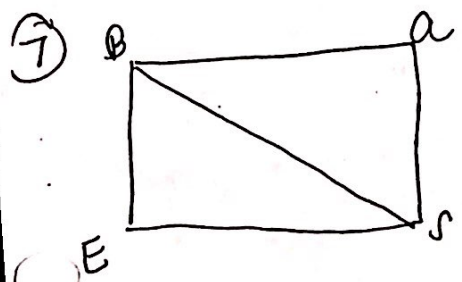
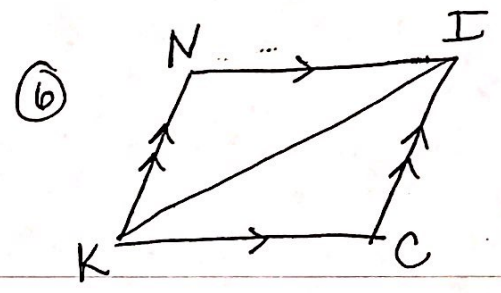
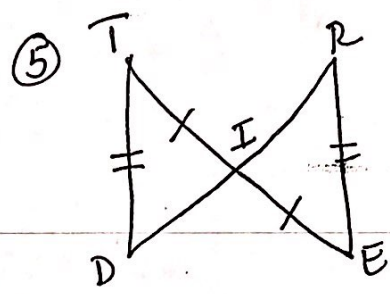
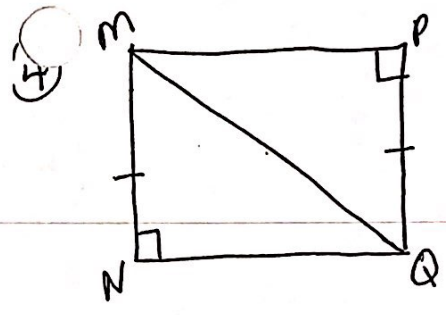
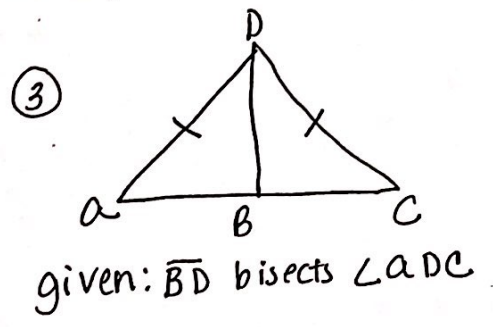
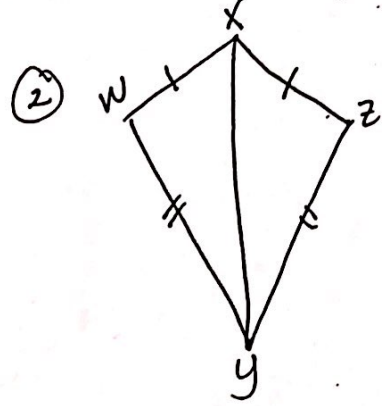
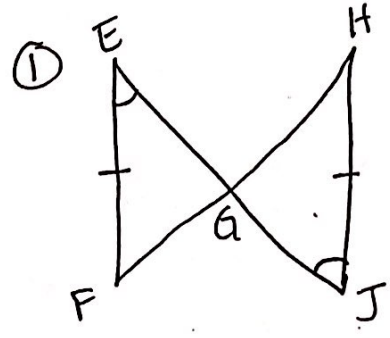


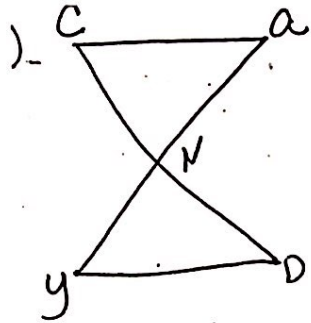
Time _____
 Date _____ Period _____

Decide whether it is possible to prove the triangles are \cong .
 If possible, state the postulate that makes them \cong . Write a congruency statement if the triangles are \cong .



given: $\overline{BA} \cong \overline{SE}$
 $\overline{BA} \parallel \overline{SE}$
 prove: $\triangle ESB \cong \triangle ABS$

statements	Reasons

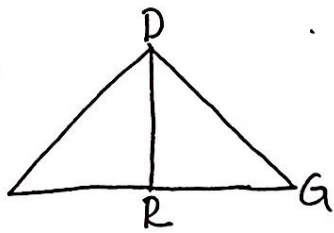


iven: $\overline{CA} \parallel \overline{DY}$

N is midpt of \overline{CD}

ove: $\triangle CAN \cong \triangle DYN$

statements	Reason
① $\overline{CA} \parallel \overline{DY}$	①
②	②
③	③ given
④	④
⑤ $\angle CNA \cong \angle DYN$	⑤
⑥ $\triangle CAN \cong \triangle DYN$	⑥

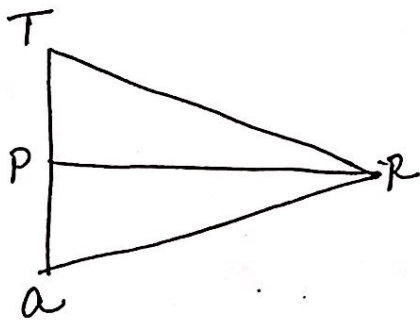


iven: $\overline{RA} \cong \overline{RG}$

$\angle ARD$ and $\angle GRD$
are right \angle 's

ove: $\triangle ARD \cong \triangle GRD$

statements	Reasons
①	①
② $\angle ARD$ and $\angle GRD$ are right \angle 's	②
③	③ all right \angle 's are \cong
④	④
⑤	⑤



iven: $\overline{TR} \cong \overline{AR}$

~~base~~
P is midpt of \overline{TA}

ive: $\triangle TAP \cong \triangle ARP$

statements	Reasons

19) What method of Δ congruency only works with right Δ s? _____

20) If $\Delta BAD \cong \Delta TOP$, then $\overline{DB} \cong$ _____ and $\Delta PTO \cong$ _____.

21) List the 4 transformations. Which ones produce congruent figures? which one produces similar figures?

Justify the following statements.

22) $\overline{AB} \cong \overline{BA}$

23) If $\angle A \cong \angle B$ & $\angle B \cong \angle C$, then $\angle A \cong \angle C$.

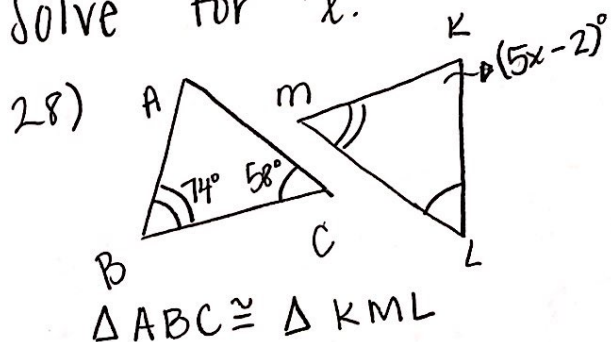
24) If $x=4$ & $3x=y$, then $3(4)=y$.

25) If $x=y$, then $x-6=y-6$.

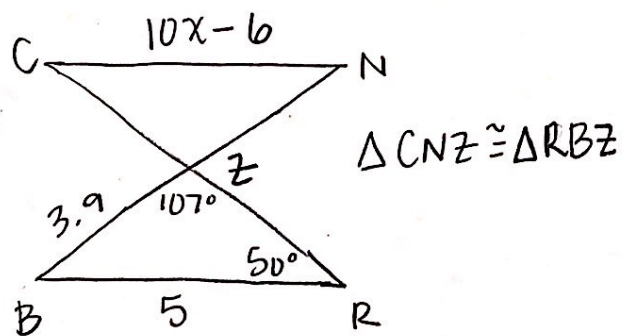
26) If $\overline{AB} \cong \overline{CD}$, then $\overline{CD} \cong \overline{AB}$.

27) $5(x-6) = 5x-30$

Solve for x .



29)



30) If $\Delta XWY \cong \Delta MNO$, $MN=3x$, $OM=45$, & $XY=5x-36$.