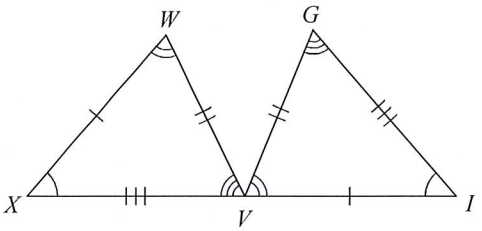
Geometry Name Huff

Unit 2C Test Review

Date_____ Period____

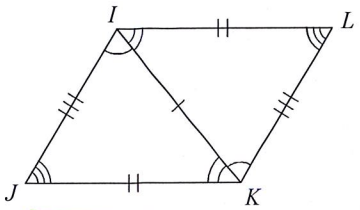
Write a statement that indicates that the triangles in each pair are congruent.

1)



$\triangle XWV \cong \triangle IVG$

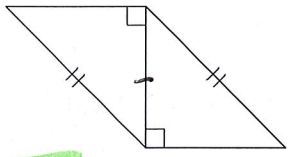
2)



$\triangle IKJ \cong \triangle KIL$

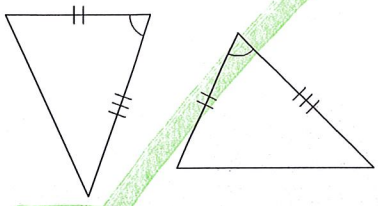
State if the two triangles are congruent. If they are, state how you know.

3)



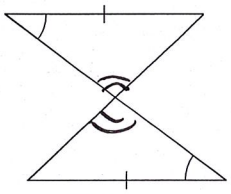
HL

4)



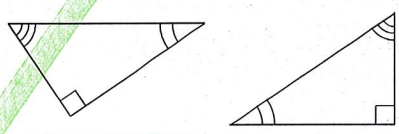
SAS

5)



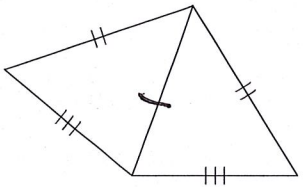
AAS

6)



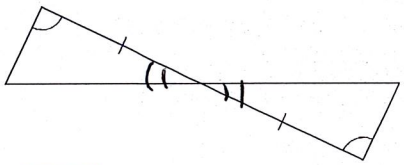
Not congruent

7)



SSS

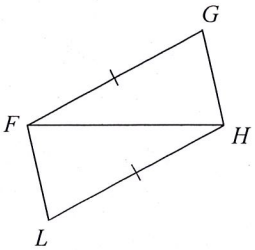
8)



ASA

State what additional information is required in order to know that the triangles are congruent for the reason given.

9) SSS



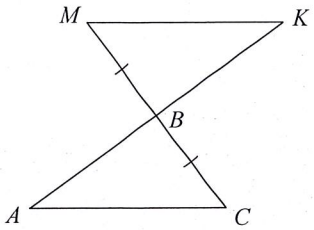
A) $\overline{HF} \cong \overline{FH}$

*B) $\overline{GH} \cong \overline{LF}$

C) $\angle HFG \cong \angle FHL$ or $\angle G \cong \angle L$

D) $\overline{FG} \cong \overline{HL}$ or $\overline{GH} \cong \overline{LF}$

10) AAS



A) $\overline{AB} \cong \overline{KB}$

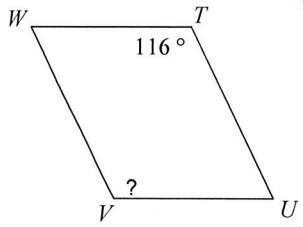
B) $\overline{AB} \cong \overline{KB}$ or $\overline{CA} \cong \overline{MK}$

*C) $\angle A \cong \angle K$

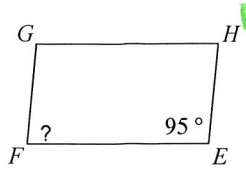
D) $\overline{BC} \cong \overline{BM}$ or $\overline{CA} \cong \overline{MK}$

Find the measurement indicated in each parallelogram.

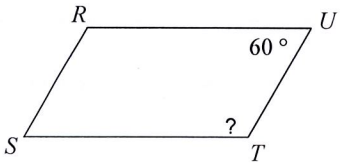
11) 116°



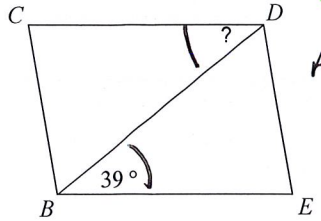
12) 85°



13) 120°

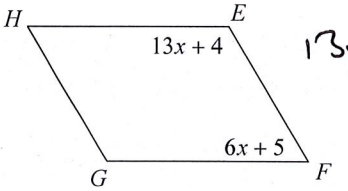


14) 39°



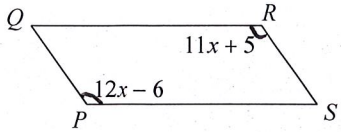
Alt Int

15) Find $m\angle E$ 121°



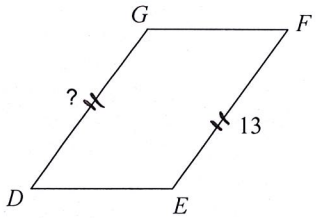
$13x+4+6x+5=180$

16) Find $m\angle Q$ 54°

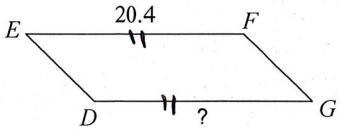


$12x-6=11x+5$

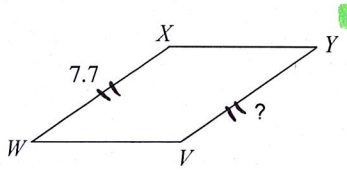
17) 13



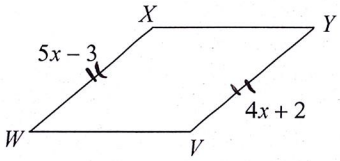
18) 20.4



19) 7.7

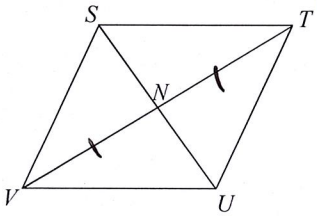


20) Find WX 22

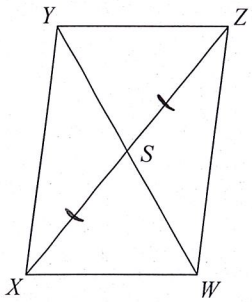


$5x-3=4x+2$

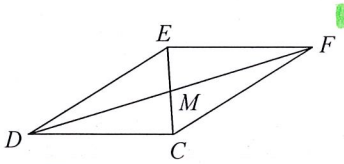
21) $TN = 12$
Find NV 12



22) $XS = 9.7$
Find SZ 9.7

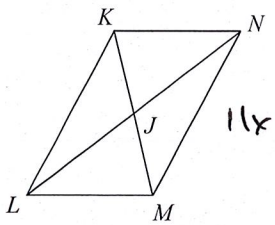


23) $DM = 7x + 3$
$MF = 9x - 3$
Find DM 24



$7x+3=9x-3$

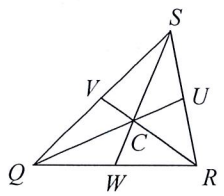
24) $MJ = 11x - 2$
$JK = 9x + 2$
Find MK 40



$11x-2=9x+2$

Each figure shows a triangle with one or more of its medians.

25) Find CW if $SC = 8$

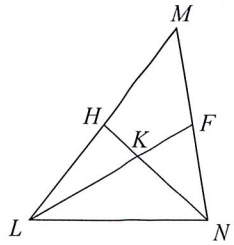


$2CW = SC$

$8/2 = 4$

4

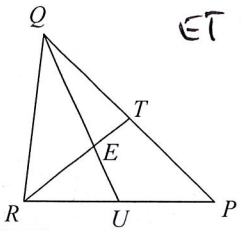
26) Find KF if $LK = 22$



$22/2 = KF$

11

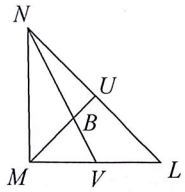
27) Find RT if $ET = 10$



$ET = \frac{1}{3} RT$

30

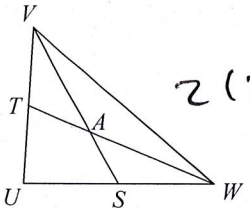
28) Find BV if $NB = 9$



$BV = \frac{1}{2} BN$

4.5

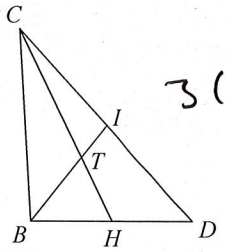
29) Find x if $VA = 1 + x$ and $AS = 2x - 7$



$2(2x-7) = 1+x$

5

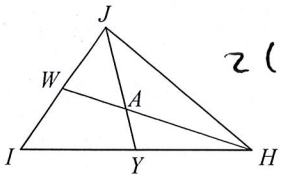
30) Find x if $CH = 5x - 5$ and $TH = 2x - 4$



$3(2x-4) = 5x-5$

7

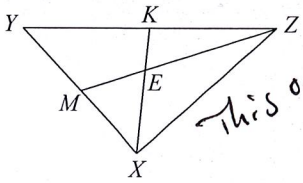
31) Find x if $HA = x - 7$ and $AW = x - 9$



$2(x-9) = x-7$

11

32) Find x if $ZE = 6x + 3$ and $ZM = 12x$

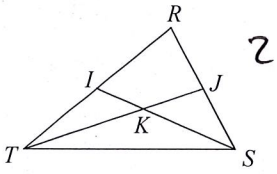


this one is hard!

$\frac{2}{3}(12x) = 6x+3$

1.5

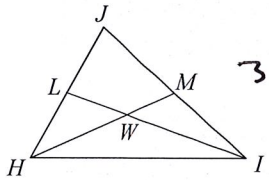
33) Find KI if $SK = 2x - 8$ and $KI = 2x - 10$



$2(2x-10) = 2x-8$

2

34) Find WL if $IL = 10x - 8$ and $WL = 10x - 12$



$3(10x-12) = 10x-8$

2