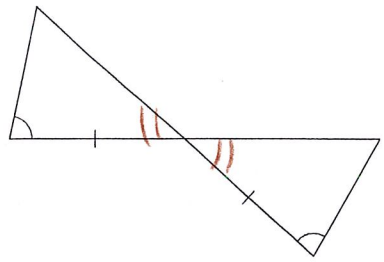
Geometry Name Hr Rf ID: 1

Assignment

Date_____ Period____

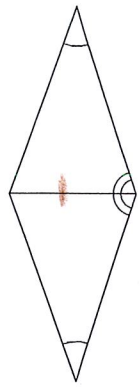
State if the two triangles are congruent. If they are, state how you know.

1)



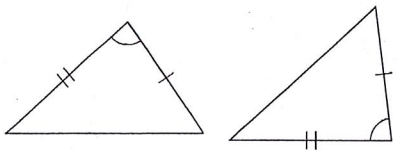
A) HL
B) SAS
C) ASA
D) Not congruent

2)



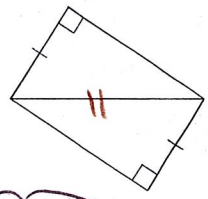
A) SAS
B) HL
C) AAS
D) SSS

3)



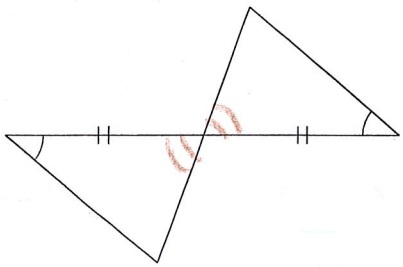
A) Not congruent
B) ASA
C) SAS
D) SSS

4)



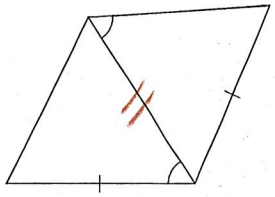
A) HL
B) AAS
C) ASA
D) SAS

5)



A) HL
B) SSS
C) SAS
D) ASA

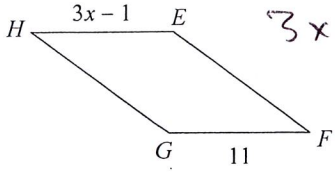
6)



A) ASA
B) Not congruent
C) SAS
D) SSS

Solve for x. Each figure is a parallelogram.

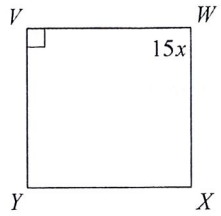
7)



$3x-1=11$

$x=4$

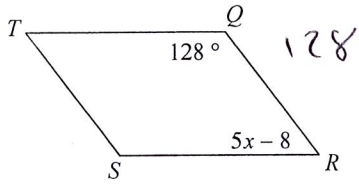
8)



$90+15x=180$

$x=6$

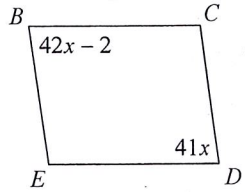
9)



$128+5x-8=180$

$x=12$

10)

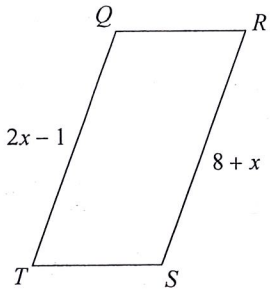


$42x-2=41x$

$x=2$

Find the measurement indicated in each parallelogram.

11) Find *RS*



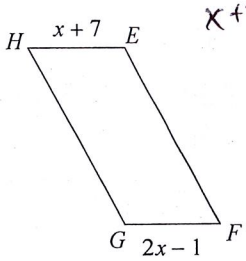
$2x-1=8+x$

$x=9$

$RS=8+(9)$

$\boxed{=17}$

12) Find *FG*



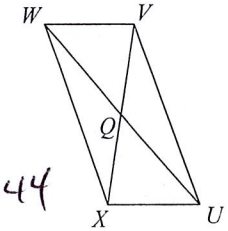
$x+7=2x-1$

$x=8$

$FG=2(8)-1$

$\boxed{=15}$

13) $WQ = 2x + 22$
$WU = x + 44$
Find WQ



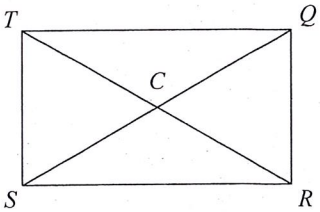
$2(2x+22)=x+44$

$x=0$

$WQ=2(0)+22$

$\boxed{=22}$

14) $RC = 2x$
$CT = x + 8$
Find RT



$2x=x+8$

$x=8$

$RC=2(8)=16$

$RT=2(RC)$

$=2(16)=\boxed{32}$