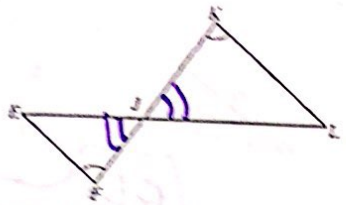
## Day 2: Similarity Postulates

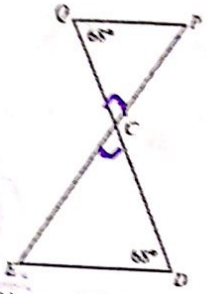
**State if the triangles in each pair are similar. If so, state how you know they are similar.**

1)



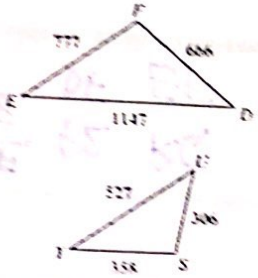
A) similar; SSS similarity
B) similar, SAS similarity
C) similar, AA similarity
D) not similar

2)



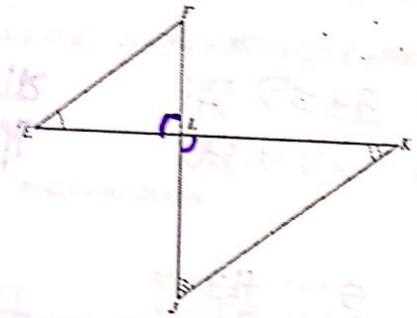

A) not similar
B) similar; AA similarity
C) similar, SAS similarity
D) similar, SSS similarity

5)




A) similar; SAS similarity
B) similar, AA similarity
C) not similar
D) similar, SSS similarity

6)



A) similar; SAS similarity
B) similar; SSS similarity
C) not similar
D) similar; AA similarity

$\frac{666}{306} \stackrel{?}{=} \frac{777}{358} \stackrel{?}{=} \frac{1147}{527}$

$\frac{37}{17} \neq \frac{777}{358} \neq \frac{37}{17}$

$\frac{65}{143} = \frac{9x+6}{132}$

$x = 6$

Honors Math 2

7)

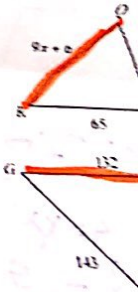

A) similar;
B) similar,
C) not sim
D) similar,

$\frac{546}{1300} \stackrel{?}{=}$

9)


A) similar; SSS
B) similar; SAS
C) similar; AA
D) not similar

11)

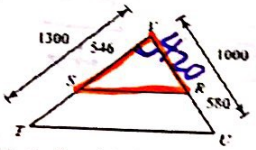



A) 9
C) 14

$169$
$9x+6$
$9295 =$

y are similar.

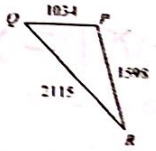
7)

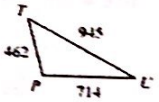



A) similar; AA similarity
B) similar; SSS similarity
C) not similar
D) similar; SAS similarity

$\frac{546}{1300} ? \frac{420}{1000}$

8)



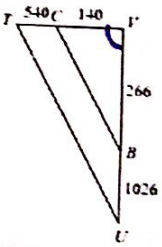




A) similar; AA similarity
B) not similar
C) similar; SSS similarity
D) similar; SAS similarity

$\frac{1034}{462} ? \frac{1598}{714} ? \frac{2115}{945}$

all $\frac{47}{21}$

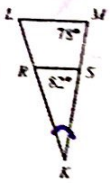
9)




$\frac{680}{140} = \frac{1292}{266}$

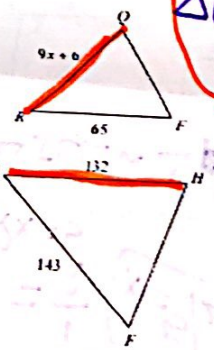
A) similar; SSS similarity
B) similar; SAS similarity
C) similar; AA similarity
D) not similar

10)




A) similar; AA similarity
B) similar; SAS similarity
C) similar; SSS similarity
D) not similar

11)



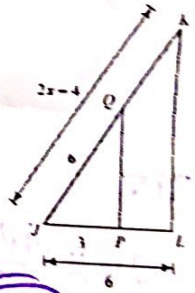

$\triangle QRF \sim \triangle HGF$

$\frac{65}{143} = \frac{9x+6}{132}$

$x = 6$

A) 9
B) 10
C) 14
D) 6

12)




A) 8
B) 3
C) 6
D) 4

$\frac{3}{6} = \frac{6}{2x-4}$

$36 = 6x - 12$

$\frac{169}{9x+6} = \frac{132}{143}$

$9295 = 1188x + 792$