Geometry 1-2

Name_____

Assignment

Date_____ Period_____

**State if each pair of triangles is similar. If so, state how you know they are similar (AA, SAS, SSS) and complete the similarity statement.**

1)

12 11

24 22

$\triangle FGH \sim$ _____
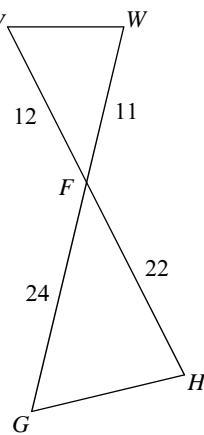
similar; SAS similarity; $\triangle FVW$

2)

$\triangle DEF \sim$ _____

similar; AA similarity; $\triangle VUT$

3)

63 56

98

14

8 9

$\triangle MLK \sim$ _____
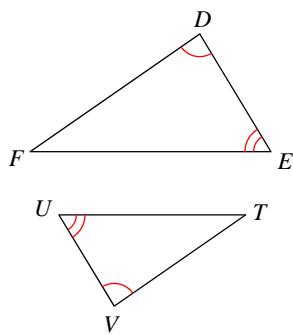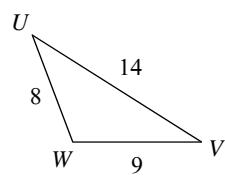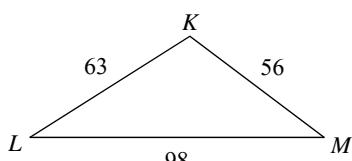
similar; SSS similarity; $\triangle UVW$

4)

$\triangle SRQ \sim$ _____
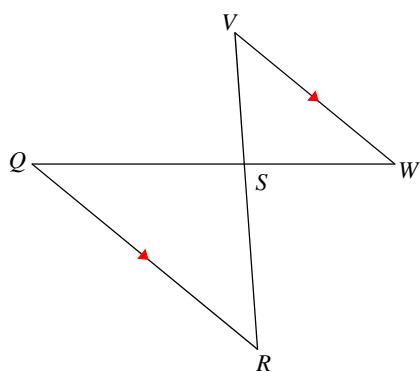
similar; AA similarity; $\triangle SVW$

not similar

5)

42 32

143

181

$\triangle WVU \sim$ _____

6)

$\triangle HGF \sim$ _____

not similar

7)

K

30   30

M   L

B ——140—— D

140

C

△BCD ~ _____

similar; SAS similarity; △KLM

8)

P

42   143

M   48   L

49   77

R   104   Q

△PQR ~ _____
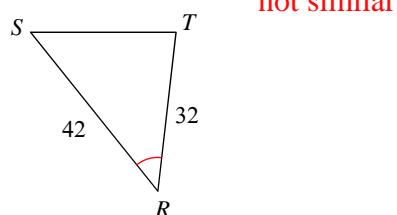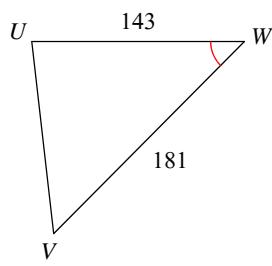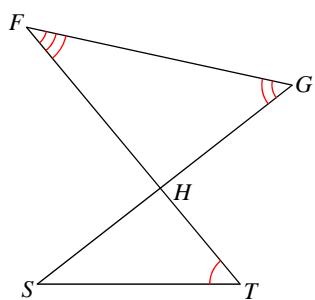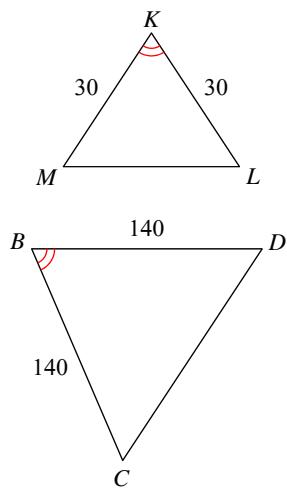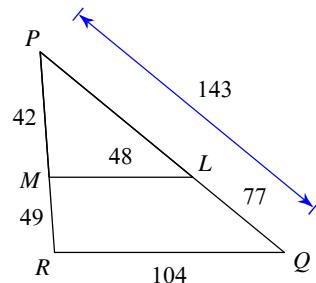
similar; SSS similarity; △PLM

9)

M

C

E   N

D

△EDC ~ _____
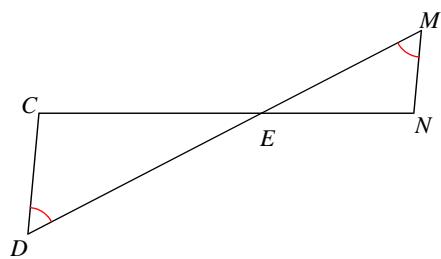
similar; AA similarity; △EMN

10)

T

8   12

E   15   D

T

28   41

V   56   U

△TUV ~ _____

not similar

11)

B

72   16   24

T   S

84

D   C

△BCD ~ _____
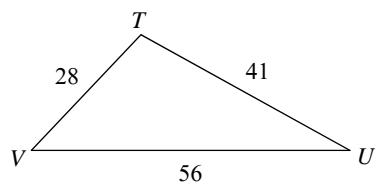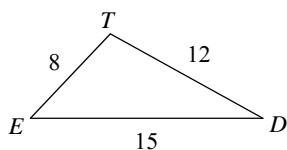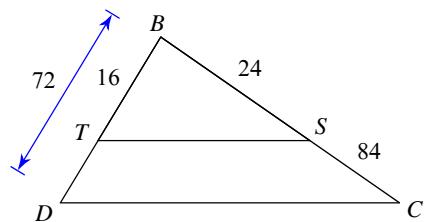
similar; SAS similarity; △BST

12)   not similar

D   57   F

125   112

E

N

40   20

M   45   L

△DEF ~ _____