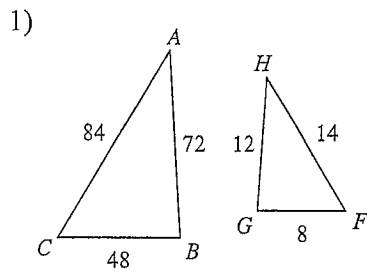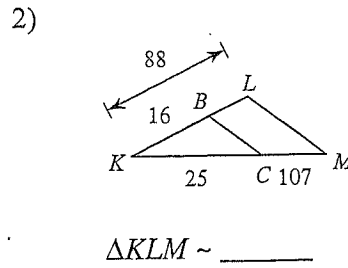SECONDARY MATH II
TRIANGLES AND TRIGONOMETRY
SIMILAR TRIANGLES AND PROPORTIONS

NAME_____
DATE_____
CLASS_____

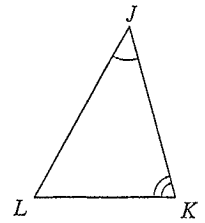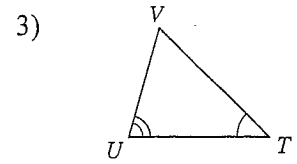State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.
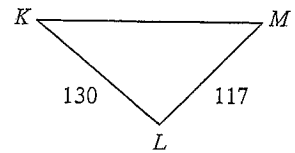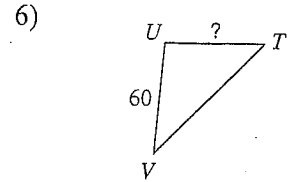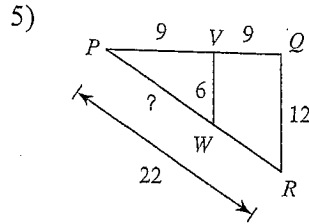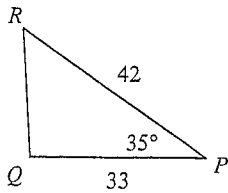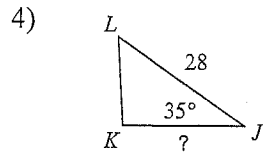
1)

$\triangle CBA \sim$ _____
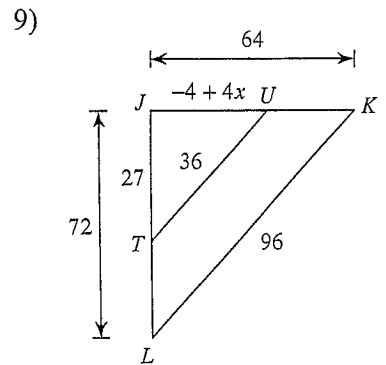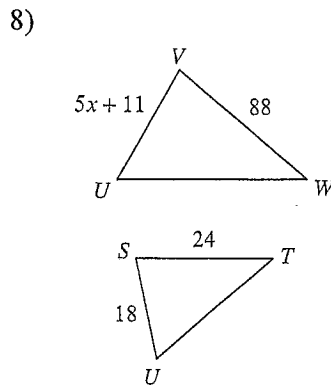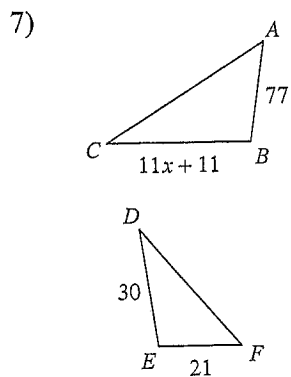
2)

$\triangle KLM \sim$ _____

3)

$\triangle JKL \sim$ _____

Find the missing length. The triangles in each pair are similar.
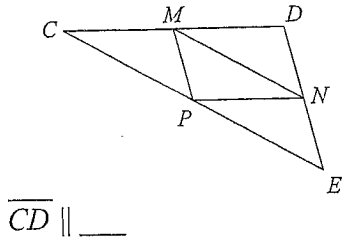
4)

5)

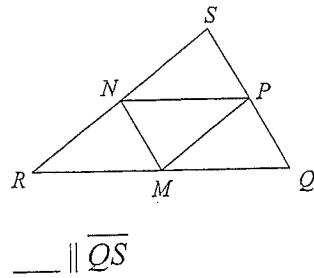6)

Solve for x. The triangles in each pair are similar.

7)

8)

9)

# Midsegment of a Triangle

In each triangle, M, N, and P are the midpoints of the sides. Name a segment parallel to the one given.

1)



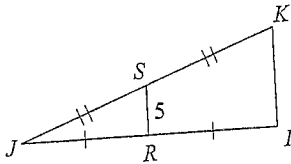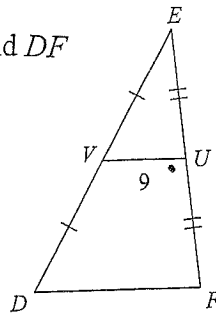$\overline{CD} \parallel$ ___

2)



___ $\parallel \overline{QS}$
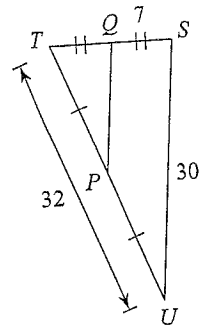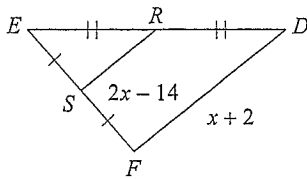
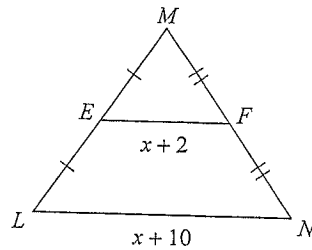Find the missing length indicated.

3)  Find $IK$



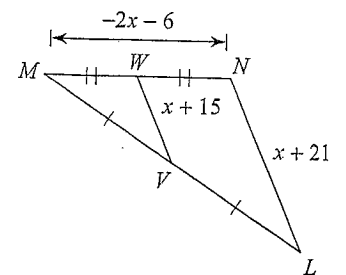4) Find $DF$



5)

Find $PQ$



Find the missing length indicated.

6)  Find $SR$



2x − 14

x + 2

7)  Find $LN$



x + 2

x + 10

8)  Find $VW$



−2x − 6

x + 15

x + 21

Solve for x.

9)



x + 2

3x − 8

10)



x + 19

x + 29

11)



x + 9

2x − 3