Name_____ ID: 1

Unit 10 Review

Date_____ Period_____

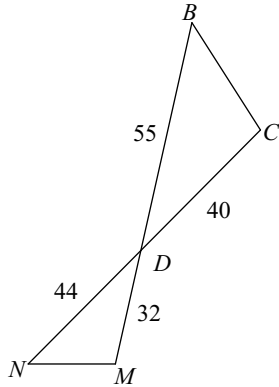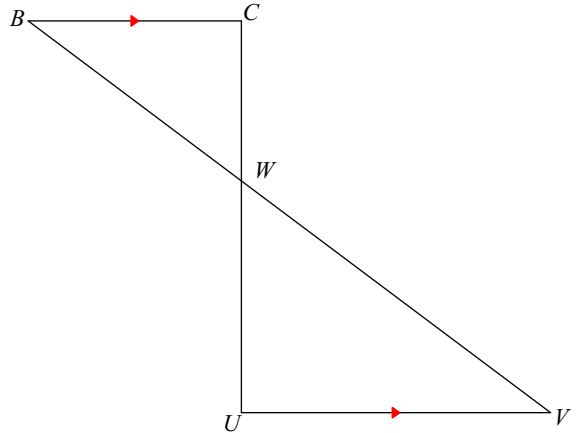**State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.**
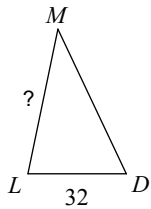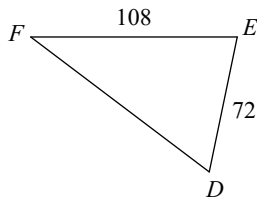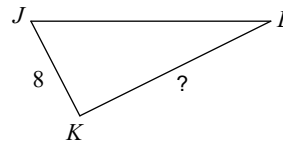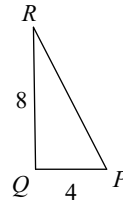
1)

$\triangle DCB \sim$ _____

2)

$\triangle WVU \sim$ _____

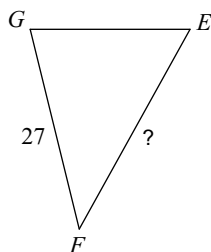**Find the missing length. The triangles in each pair are similar.**
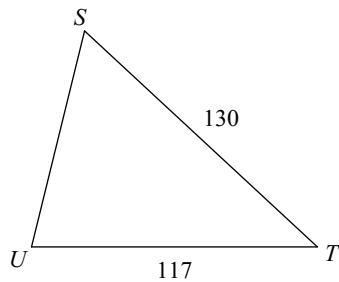
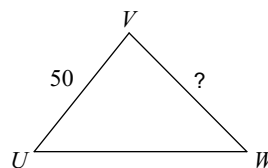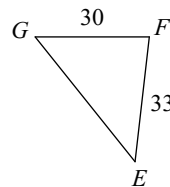3) $\triangle DEF \sim \triangle DLM$

4) $\triangle JKL \sim \triangle PQR$
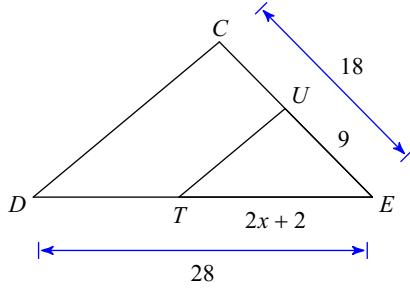
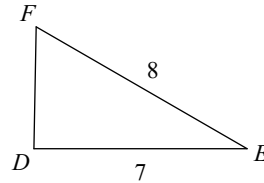5) $\triangle STU \sim \triangle EFG$

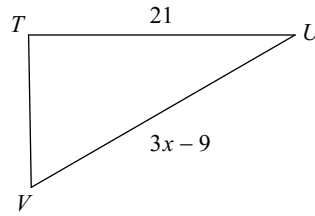6) $\triangle UVW \sim \triangle GFE$

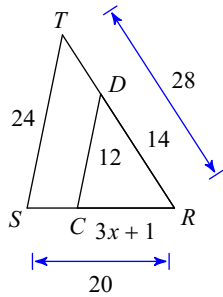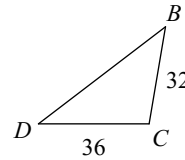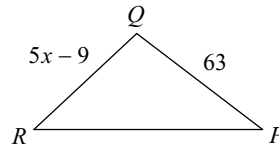**Solve for *x*. The triangles in each pair are similar.**

7)

8) $\triangle VUT \sim \triangle FED$

9)
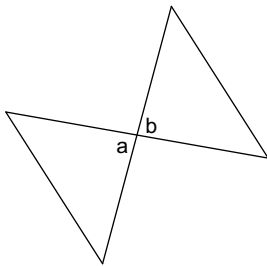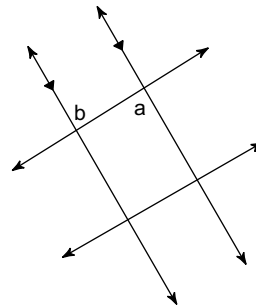

10) $\triangle RQP \sim \triangle BCD$

Name the relationship: vertical, alternate interior, corresponding, or alternate exterior.
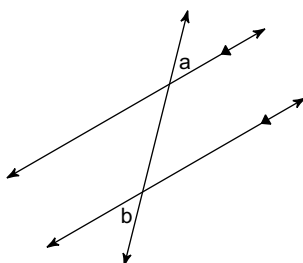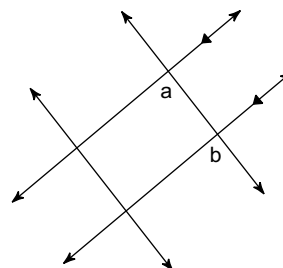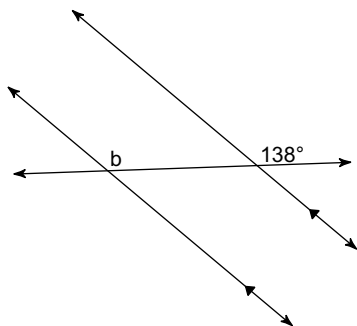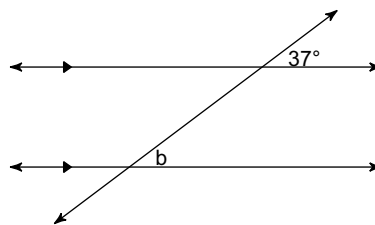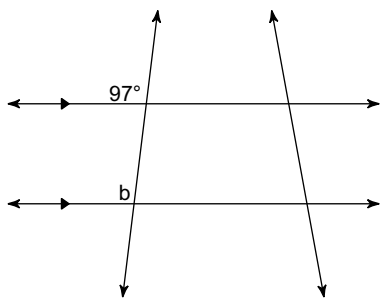
11)

12)

13)

14)

Find the measure of angle b.

15)

138°

b

16)
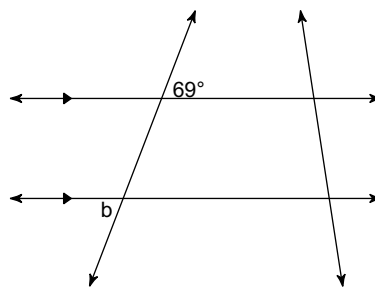
37°

b

17)

97°

b

18)

69°

b

Find the value of x.

19)

46°
2x°

20)

51°
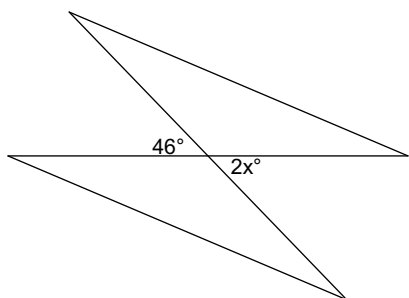
3x°

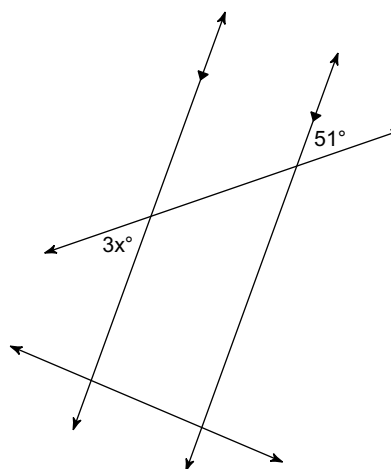**True or False.**

21) A dilation with a scale factor smaller than 1 will shrink the image.

22) A dilation image can have points in common with its pre-image.

23) A dilation does not preserve length.

24) Corresponding angles in the image and the pre-image are congruent.