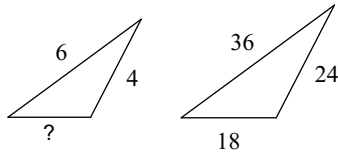


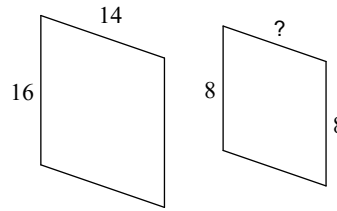
3.4 - Quiz Review

The polygons in each pair are similar. Find the missing side length.

1)

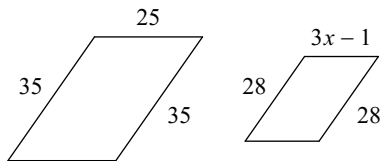


2)

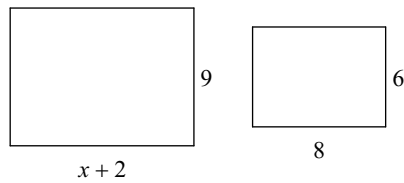


Solve for  $x$ . The polygons in each pair are similar.

3)

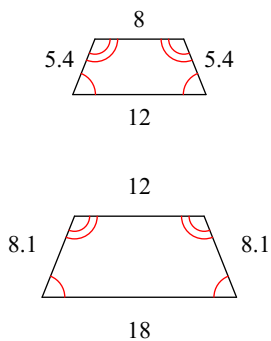


4)

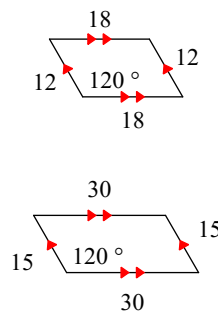


Determine if the polygons are similar. SHOW YOUR WORK!

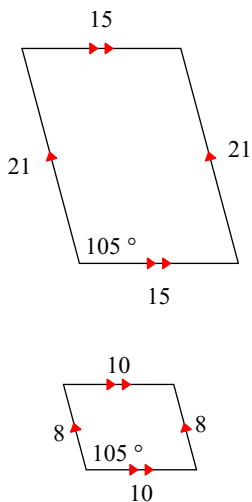
5)



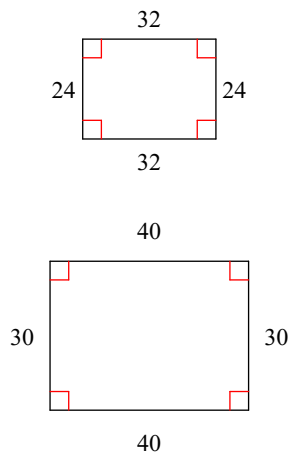
6)



7)

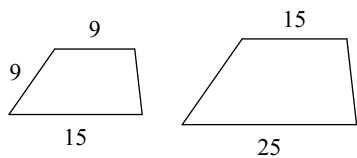


8)

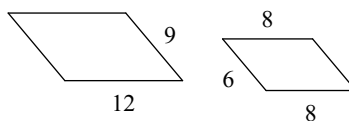


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

9)

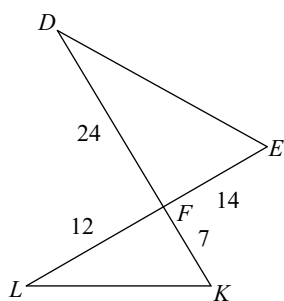


10)



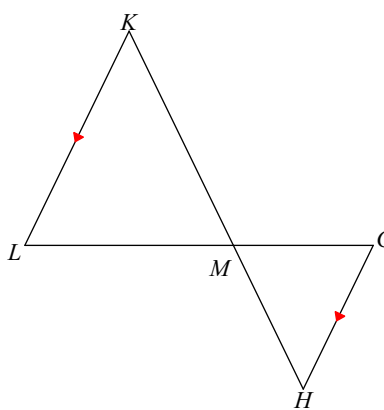
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

11)



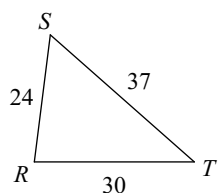
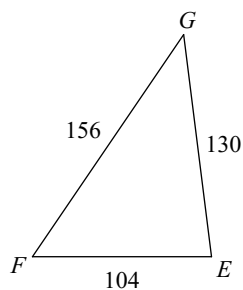
$\triangle FED \sim$  \_\_\_\_\_

12)



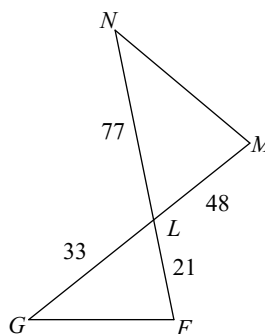
$\triangle MLK \sim$  \_\_\_\_\_

13)



$\triangle EFG \sim$  \_\_\_\_\_

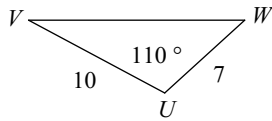
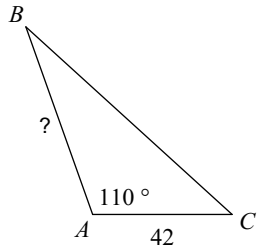
14)



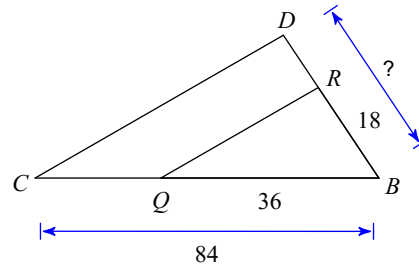
$\triangle LMN \sim$  \_\_\_\_\_

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

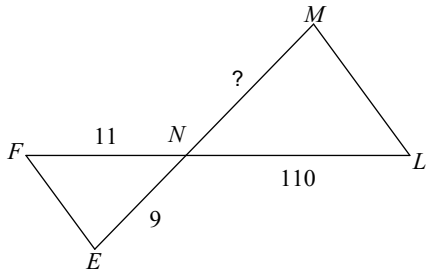
15)  $\triangle ABC \sim \triangle UVW$



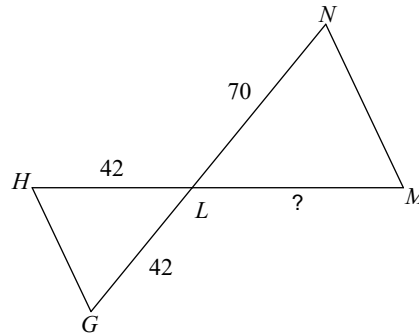
16)



17)  $\triangle NML \sim \triangle NEF$

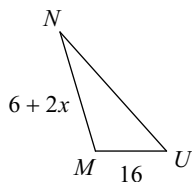
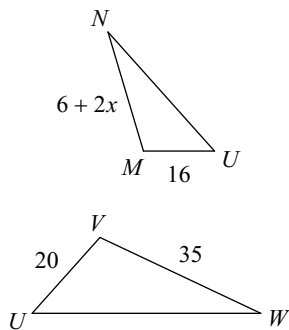


18)  $\triangle LMN \sim \triangle LGH$

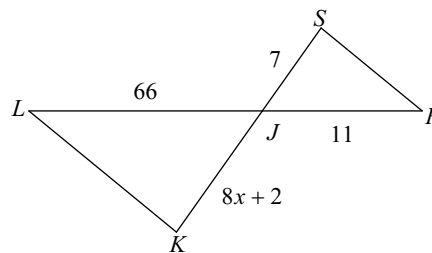
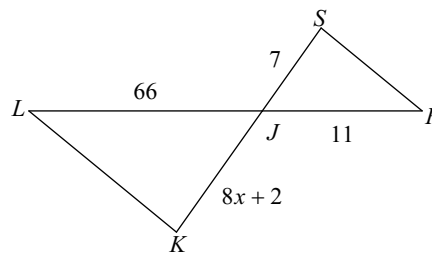


Solve for  $x$ . The triangles in each pair are similar.

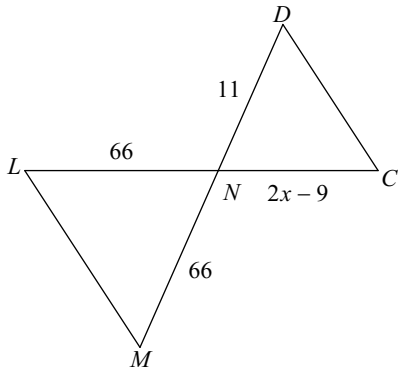
19)  $\triangle UVW \sim \triangle UMN$



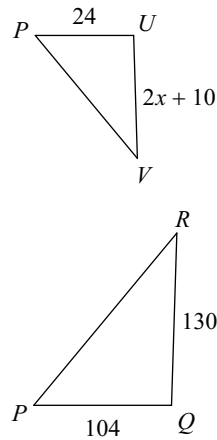
20)  $\triangle JKL \sim \triangle JSR$



21)  $\triangle NML \sim \triangle NDC$

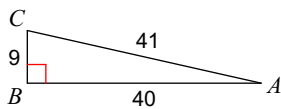


22)  $\triangle PQR \sim \triangle PUV$

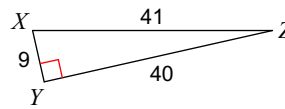


**Find the value of each trigonometric ratio.**

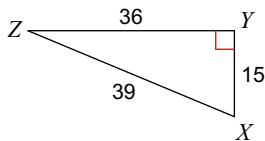
23)  $\sin C$



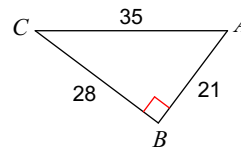
24)  $\cos Z$



25)  $\tan Z$



26)  $\tan A$



27)  $\sin(25^\circ) = \underline{\hspace{2cm}}$

$\cos(80^\circ) = \underline{\hspace{2cm}}$

28) If  $\sin \theta^\circ = \frac{2}{3}$ ,  $\cos(90 - \theta)^\circ = \underline{\hspace{2cm}}$

If  $\cos \theta^\circ = \frac{5}{13}$ ,  $\sin(90 - \theta)^\circ = \underline{\hspace{2cm}}$

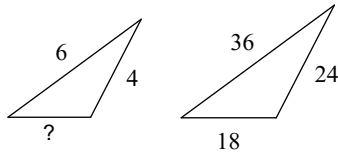
If  $\tan \theta^\circ = \frac{3}{7}$ , then  $\tan(90 - \theta)^\circ = \underline{\hspace{2cm}}$

29) Find the length of EF in  $\triangle DEF$  where  $\angle E = 90^\circ$  and  $\sin F = \frac{40}{41}$ . Then find  $\tan D$ .

3.4 - Quiz Review

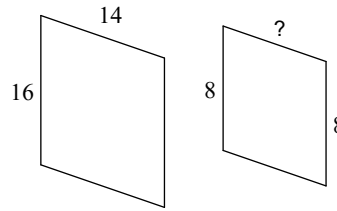
The polygons in each pair are similar. Find the missing side length.

1)



3

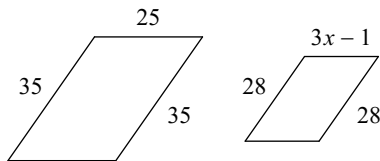
2)



7

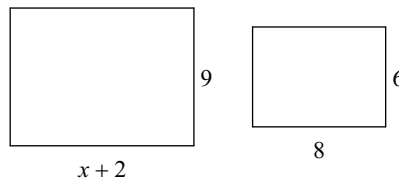
Solve for  $x$ . The polygons in each pair are similar.

3)



7

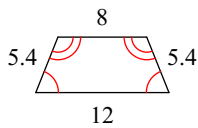
4)



10

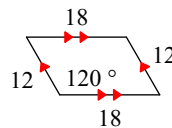
Determine if the polygons are similar. SHOW YOUR WORK!

5)



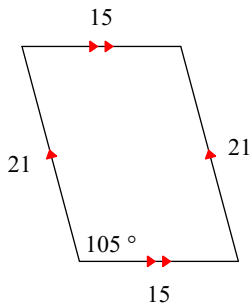
similar

6)



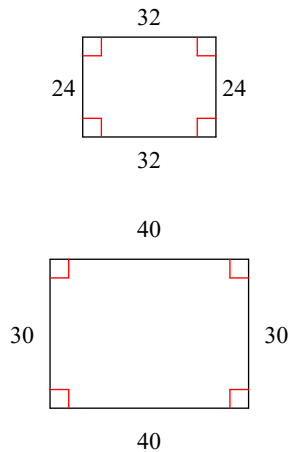
not similar

7)



not similar

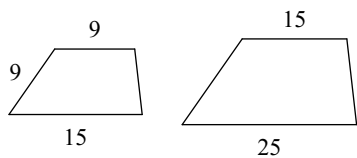
8)



similar

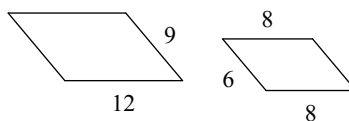
The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

9)



3 : 5

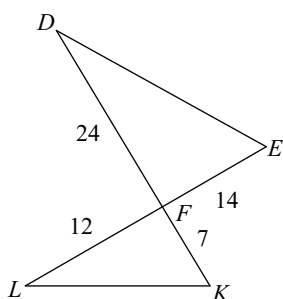
10)



2 : 3

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

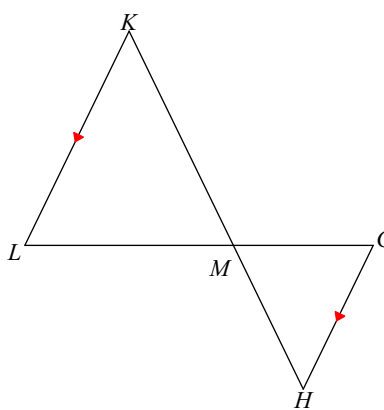
11)



$\triangle FED \sim$  \_\_\_\_\_

similar; SAS similarity;  $\triangle FKL$

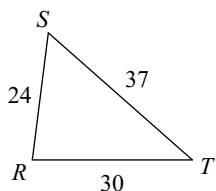
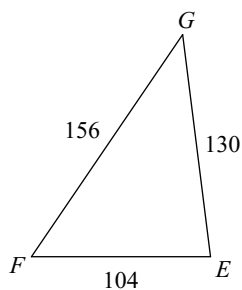
12)



$\triangle MLK \sim$  \_\_\_\_\_

similar; AA similarity;  $\triangle MGH$

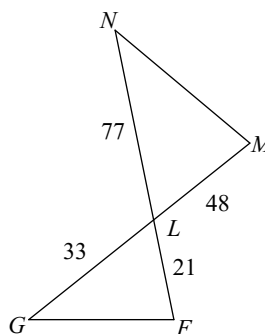
13)



$\triangle EFG \sim$  \_\_\_\_\_

not similar

14)

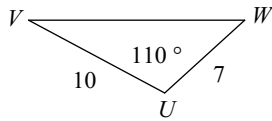
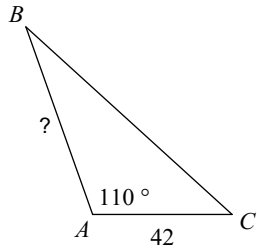


$\triangle LMN \sim$  \_\_\_\_\_

not similar

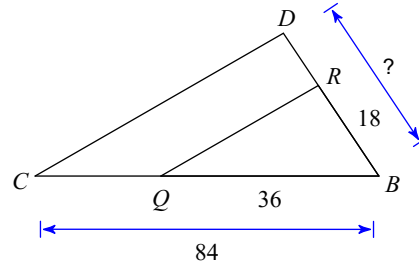
Find the missing length. The triangles in each pair are similar.

15)  $\triangle ABC \sim \triangle UVW$



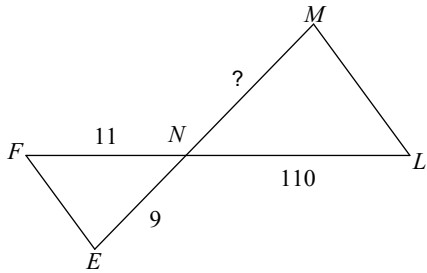
60

16)



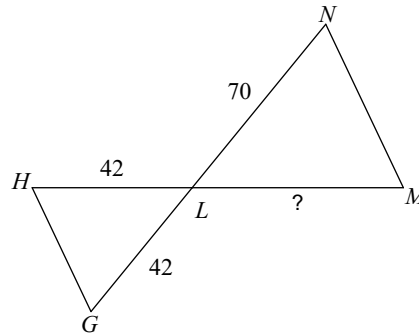
42

17)  $\triangle NML \sim \triangle NEF$



90

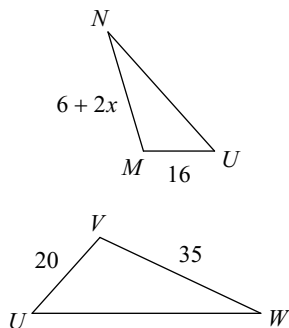
18)  $\triangle LMN \sim \triangle LGH$



70

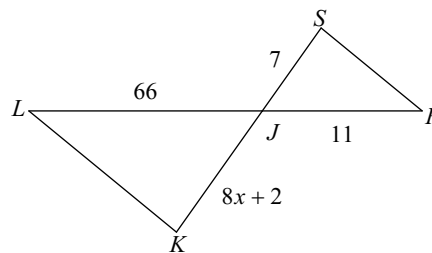
Solve for  $x$ . The triangles in each pair are similar.

19)  $\triangle UVW \sim \triangle UMN$



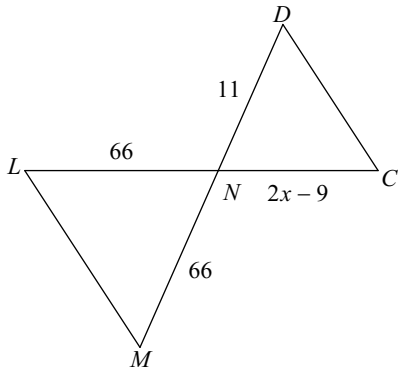
11

20)  $\triangle JKL \sim \triangle JSR$



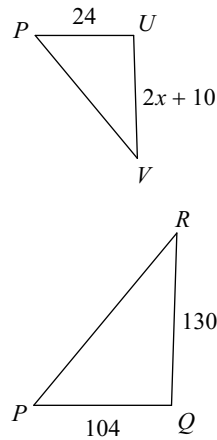
5

21)  $\triangle NML \sim \triangle NDC$



10

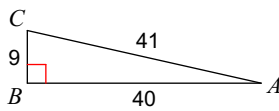
22)  $\triangle PQR \sim \triangle PUV$



10

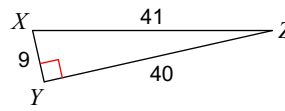
Find the value of each trigonometric ratio.

23)  $\sin C$



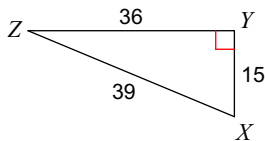
$\frac{40}{41}$

24)  $\cos Z$



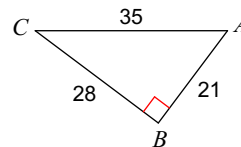
$\frac{40}{41}$

25)  $\tan Z$



$\frac{5}{12}$

26)  $\tan A$



$\frac{4}{3}$

27)  $\sin(25^\circ) = \underline{\hspace{2cm}}$

$\cos(80^\circ) = \underline{\hspace{2cm}}$

28) If  $\sin \theta^\circ = \frac{2}{3}$ ,  $\cos(90 - \theta)^\circ = \underline{\hspace{2cm}}$

If  $\cos \theta^\circ = \frac{5}{13}$ ,  $\sin(90 - \theta)^\circ = \underline{\hspace{2cm}}$

If  $\tan \theta^\circ = \frac{3}{7}$ , then  $\tan(90 - \theta)^\circ = \underline{\hspace{2cm}}$

29) Find the length of EF in  $\triangle DEF$  where  $\angle E = 90^\circ$  and  $\sin F = \frac{40}{41}$ . Then find  $\tan D$ .