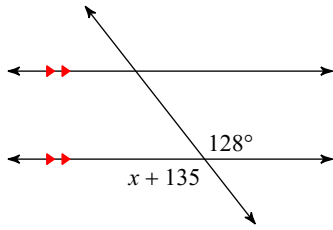


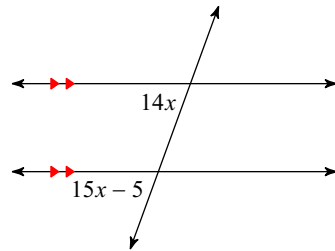
Unit 2 Test Review

Solve for x .

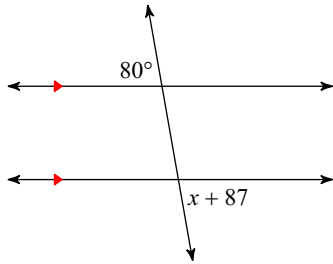
1)



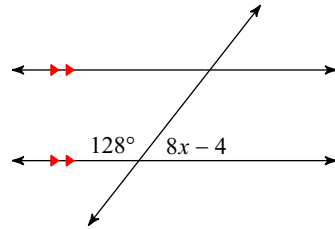
2)



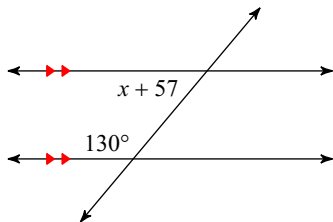
3)



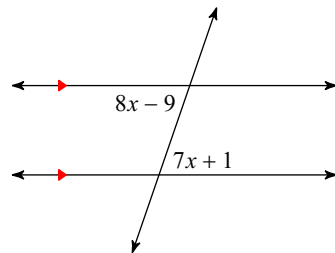
4)



5)

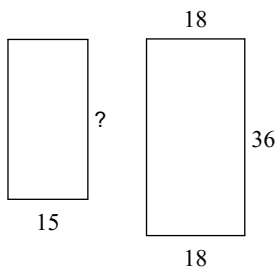


6)

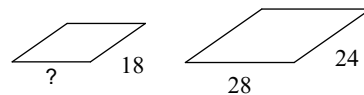


The polygons in each pair are similar. Find the missing side length.

7)

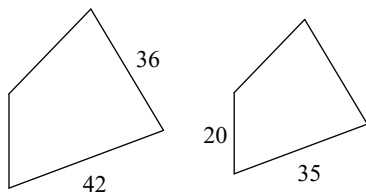


8)

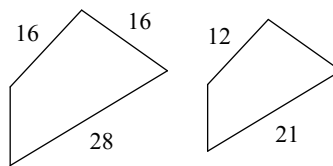


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

9)

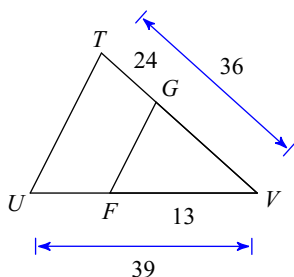


10)



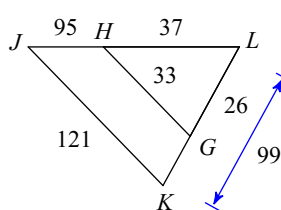
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

11)



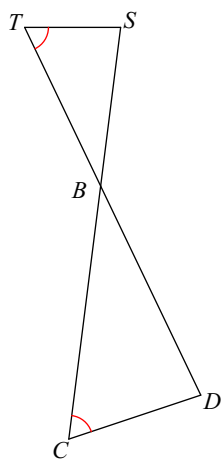
$\triangle VUT \sim$ _____

12)



$\triangle LKJ \sim$ _____

13)

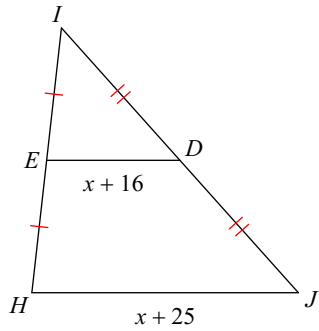


$\triangle BCD \sim$ _____

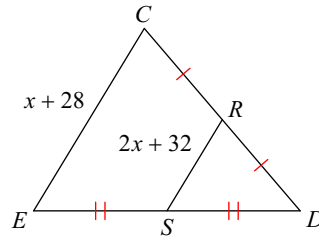
14) Erin has a picture that is 4 inches wide by 6 inches long. She wants to enlarge it to fit in a frame that is 14 inches long. Draw a picture, set up a proportion, and solve. Show all work.

Solve for x .

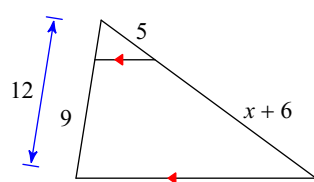
15)



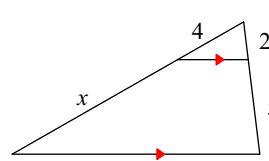
16)



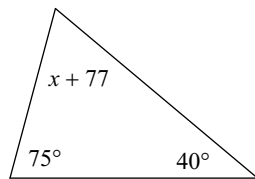
17)



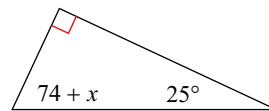
18)



19)

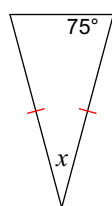


20)

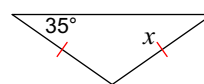


Find the value of x .

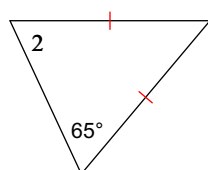
21)



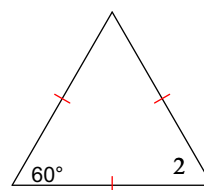
22)



23) $m\angle 2 = 8x + 9$

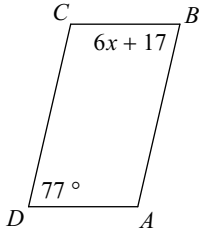


24) $m\angle 2 = x + 72$

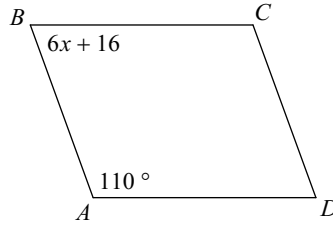


Solve for x . Each figure is a parallelogram.

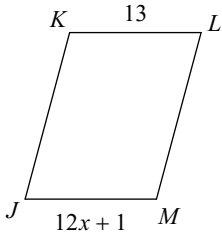
25)



26)

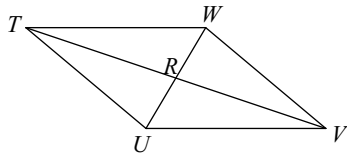


27)

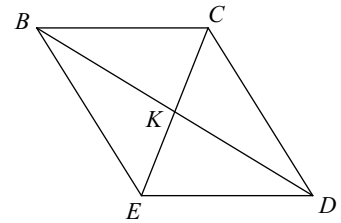


Find the measurement indicated in each parallelogram.

28) $VR = -2 + x$
 $RT = 2x - 13$
 Find VT

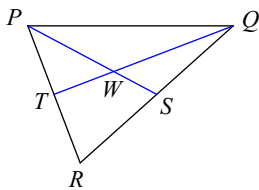


29) $CK = 2x + 10$
 $CE = 7x + 2$
 Find CK

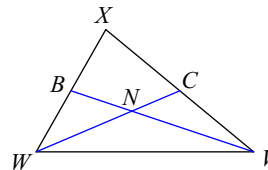


Each figure shows a triangle with one or more of its medians.

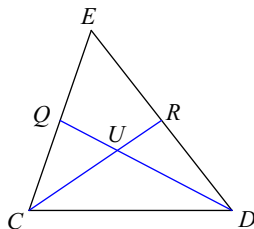
30) Find WT if $QW = 2.4$



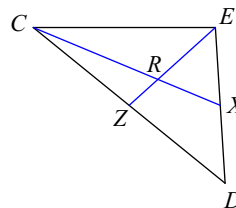
31) Find NB if $VB = 15$



32) Find x if $CR = 5x - 4$ and $UR = x + 2$



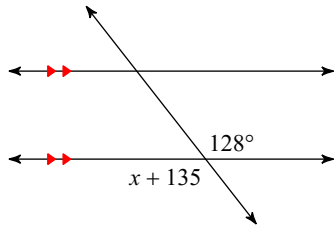
33) Find x if $CR = x$ and $RX = 2x - 3$



Unit 2 Test Review

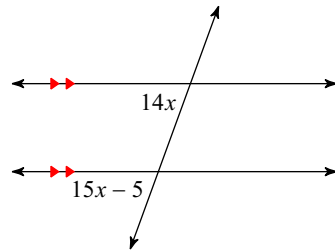
Solve for x .

1)



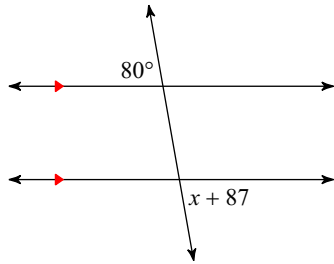
-7

2)



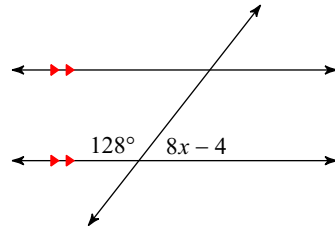
5

3)



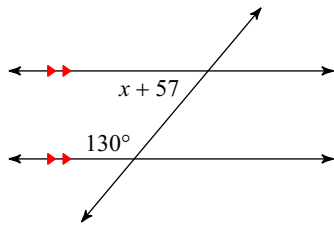
-7

4)



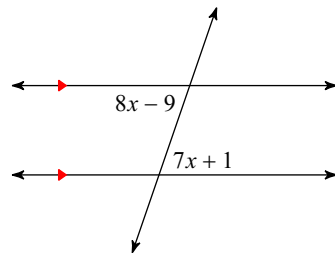
7

5)



-7

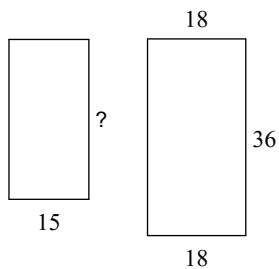
6)



10

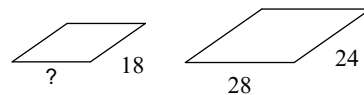
The polygons in each pair are similar. Find the missing side length.

7)



30

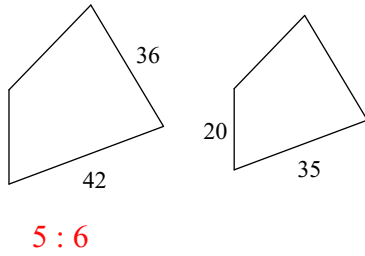
8)



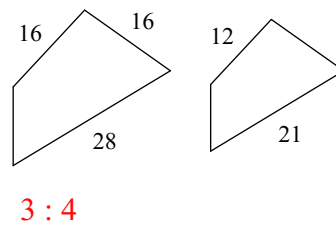
21

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

9)

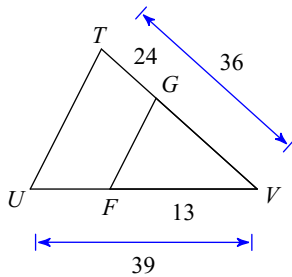


10)



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

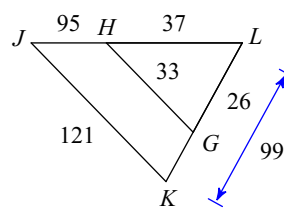
11)



$\triangle VUT \sim$ _____

similar; SAS similarity; $\triangle VFG$

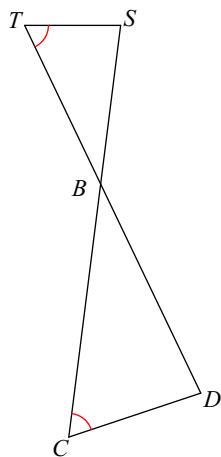
12)



$\triangle LKJ \sim$ _____

not similar

13)



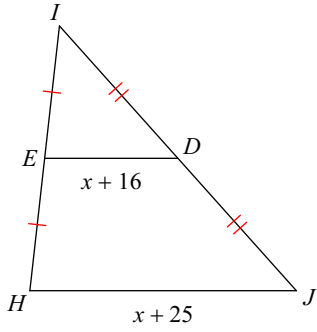
$\triangle BCD \sim$ _____

similar; AA similarity; $\triangle BTS$

14) Erin has a picture that is 4 inches wide by 6 inches long. She wants to enlarge it to fit in a frame that is 14 inches long. Draw a picture, set up a proportion, and solve. Show all work.

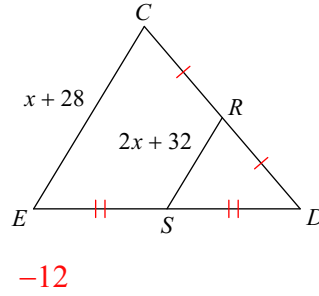
Solve for x .

15)



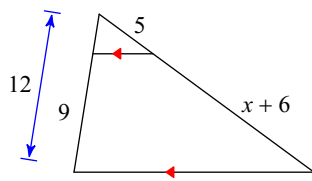
-7

16)



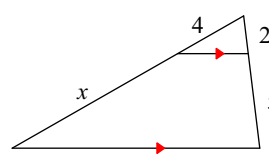
-12

17)



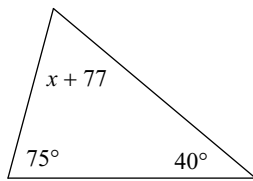
9

18)



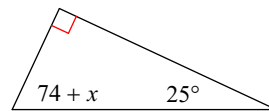
10

19)



-12

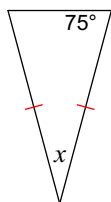
20)



-9

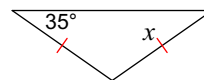
Find the value of x .

21)



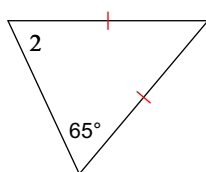
30°

22)



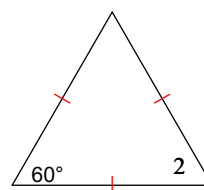
35°

23) $m\angle 2 = 8x + 9$



7

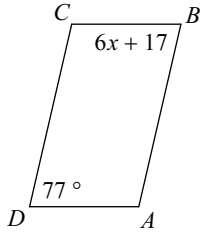
24) $m\angle 2 = x + 72$



-12

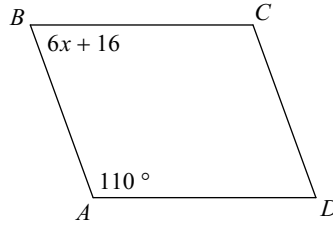
Solve for x . Each figure is a parallelogram.

25)



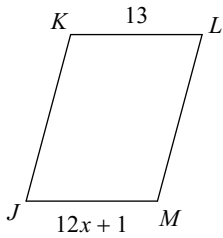
10

26)



9

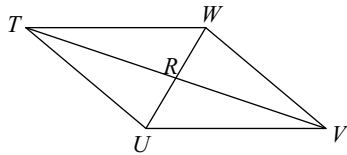
27)



1

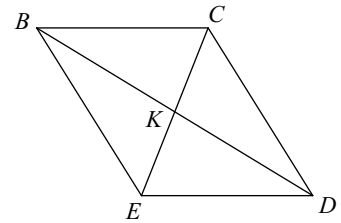
Find the measurement indicated in each parallelogram.

28) $VR = -2 + x$
 $RT = 2x - 13$
 Find VT



18

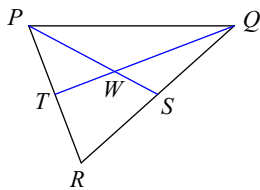
29) $CK = 2x + 10$
 $CE = 7x + 2$
 Find CK



22

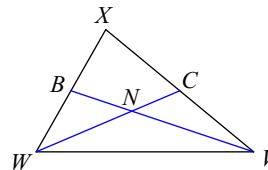
Each figure shows a triangle with one or more of its medians.

30) Find WT if $QW = 2.4$



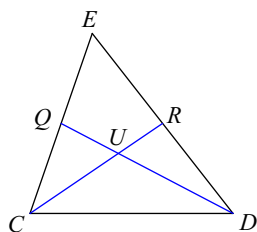
1.2

31) Find NB if $VB = 15$



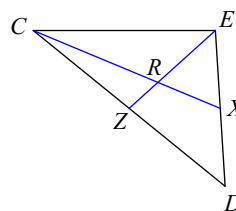
5

32) Find x if $CR = 5x - 4$ and $UR = x + 2$



5

33) Find x if $CR = x$ and $RX = 2x - 3$



2