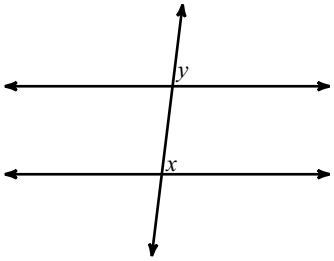
Geometry A FALL 2018 Name_____

FINAL EXAM REVIEW (Day 1)

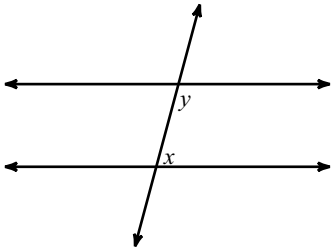
December _____

Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, or vertical.

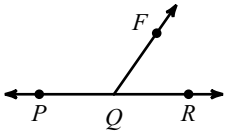
1)



2)



3) Find x if $m\angle FQR = 10x - 5$, $m\angle PQR = -6 + 31x$, and $m\angle PQF = 125°$.



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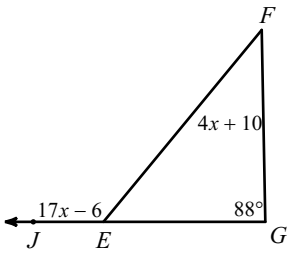
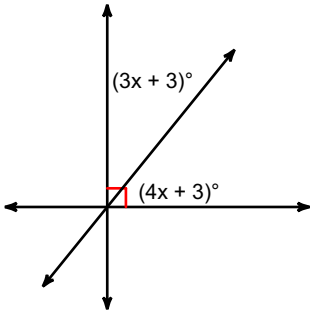
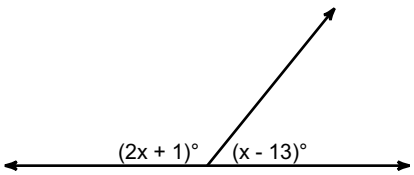


5)

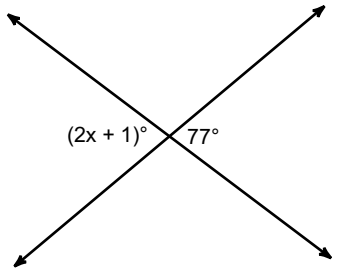


Find the value of x.

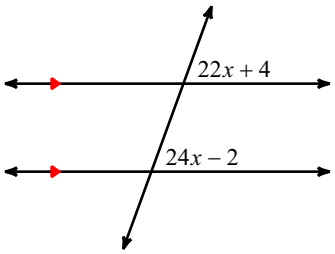
6)



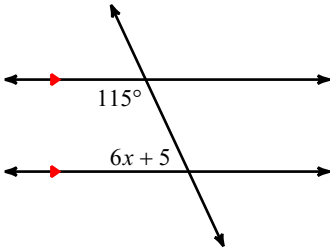
7)



8)

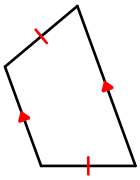


9)



State all possible names for each figure.

10)



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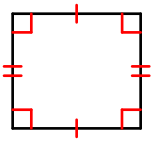
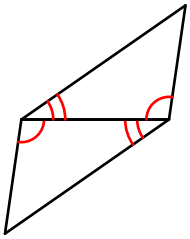


State if the two triangles are congruent. If they are, state how you know.

12)



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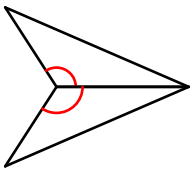

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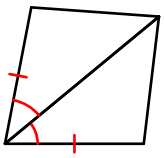
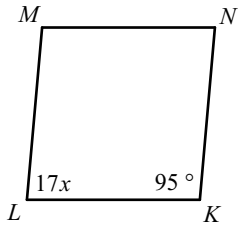


Solve for *x*. Each figure is a parallelogram.

15)



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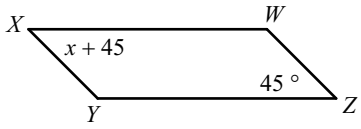
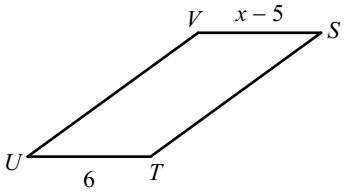
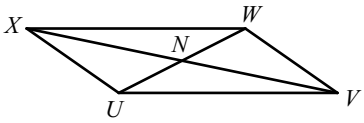


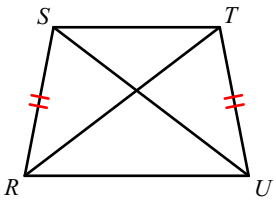
17)



18) $NU = 15$
$WU = 3x - 3$



19) $RT = 24$
$SU = 7x - 4$

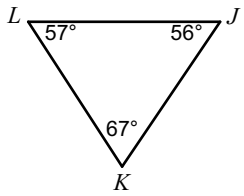


Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

20) 9, 12

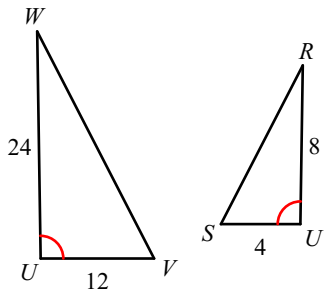
Order the sides of each triangle from shortest to longest.

21)



Determine whether the triangles are similar. If so, by what simlarity postulate?

22) $\triangle UVW \sim \triangle USR$



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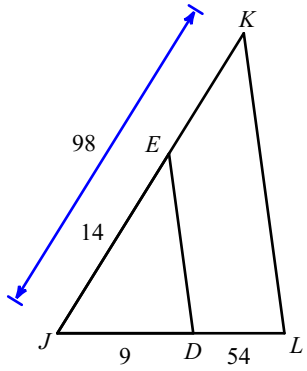
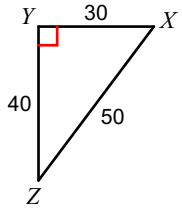
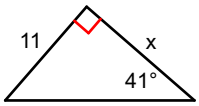


For #24: Find the trig ratio. For #25-#28, solve for the missing side or missing angle.

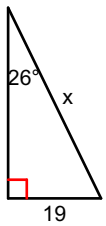
24) $\cos X$



25)



26)



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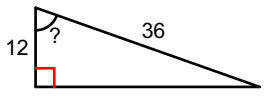

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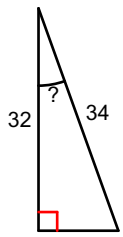
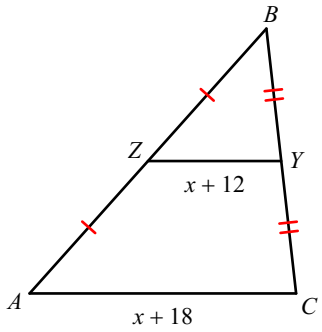
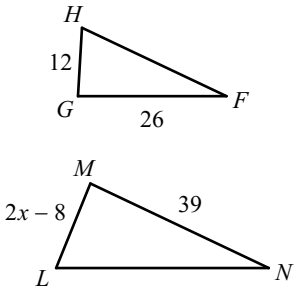


Solve for *x*.

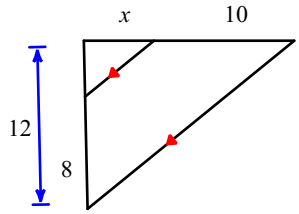
29)



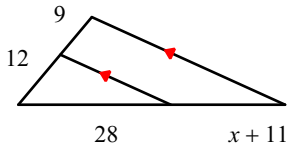
30) $\triangle NML \sim \triangle FGH$



31)

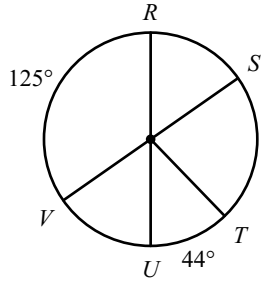


32)

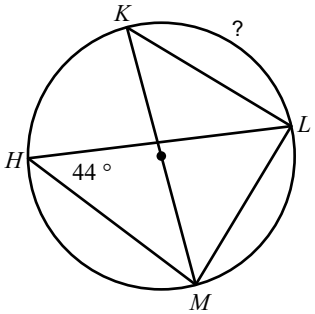


Find the measure of the arc or angle indicated. Assume that lines which appear to be diameters are actual diameters.

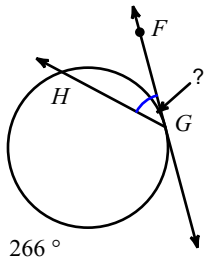
33) $m\widehat{SU}$



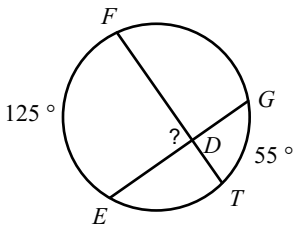
34)



35)



36)



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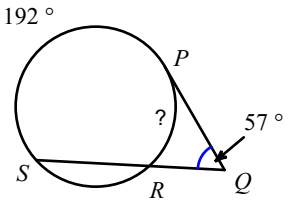
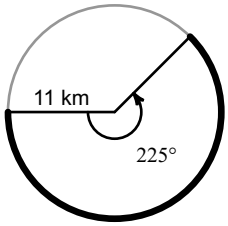
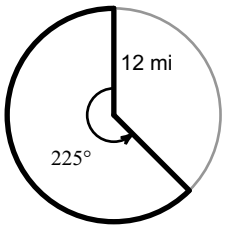


For #38, find the arc length. For #39, find the area of the shaded region.

38)



39)



Find the circumference.

40) area = 49π cm²

Find the radius.

41) circumference = 20π in

Find the diameter.

42) area = 100π cm²

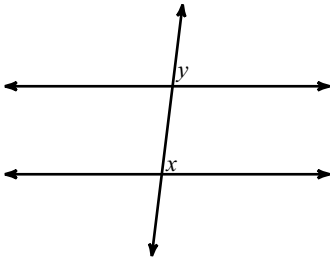
Geometry A FALL 2018 Name_____

FINAL EXAM REVIEW (Day 1)

December _____

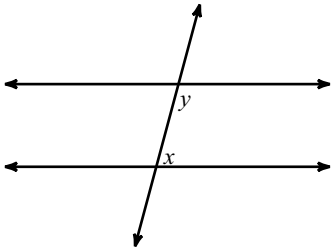
Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, or vertical.

1)



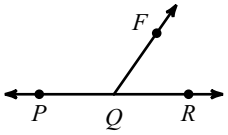
corresponding

2)



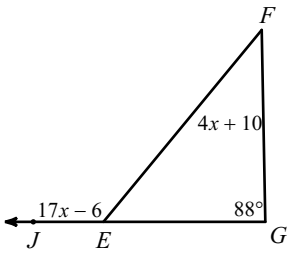
consecutive interior

3) Find x if $m\angle FQR = 10x - 5$, $m\angle PQR = -6 + 31x$, and $m\angle PQF = 125°$.



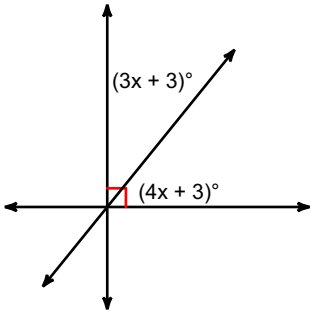
6

4)



8

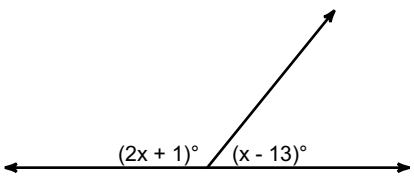
5)



12

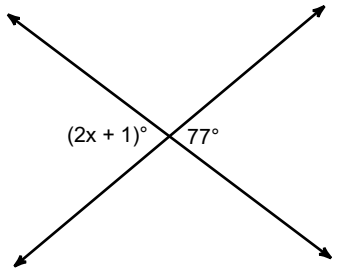
Find the value of x.

6)



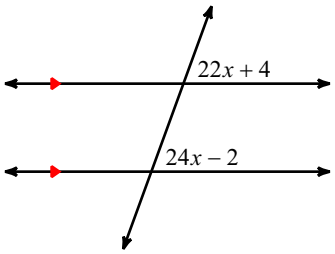
64

7)



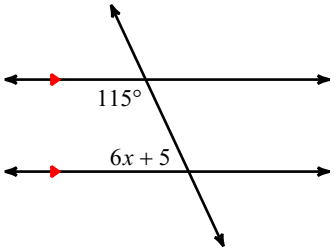
38

8)



3

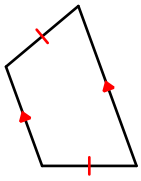
9)



10

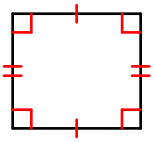
State all possible names for each figure.

10)



quadrilateral, trapezoid, isosceles trapezoid

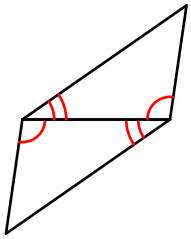
11)



quadrilateral, parallelogram, rectangle

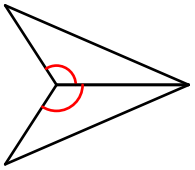
State if the two triangles are congruent. If they are, state how you know.

12)



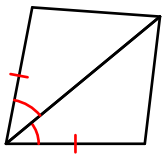
ASA

13)



Not congruent

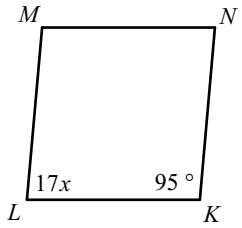
14)



SAS

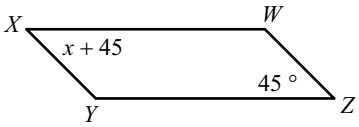
Solve for x. Each figure is a parallelogram.

15)



5

16)



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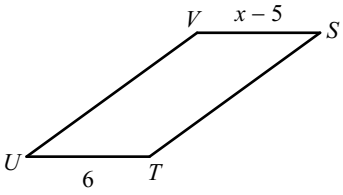
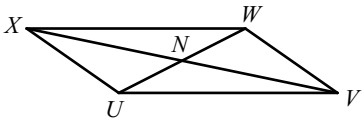
17)



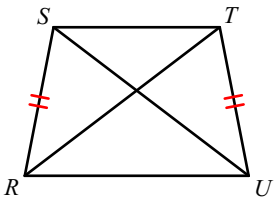
11

18) $NU = 15$
$WU = 3x - 3$



11

19) $RT = 24$
$SU = 7x - 4$



4

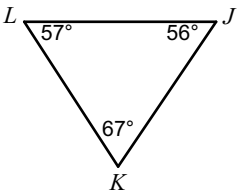
Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

20) 9, 12

$3 < x < 21$

Order the sides of each triangle from shortest to longest.

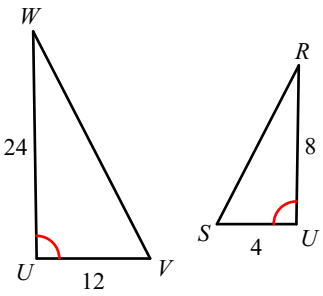
21)



$\overline{KL}, \overline{JK}, \overline{JL}$

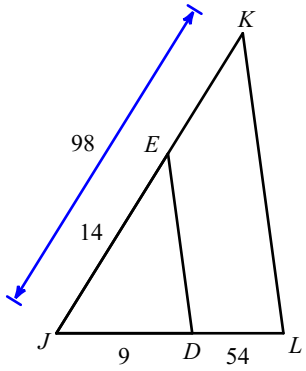
Determine whether the triangles are similar. If so, by what simlarity postulate?

22) $\triangle UVW \sim \triangle USR$



similar; SAS similarity

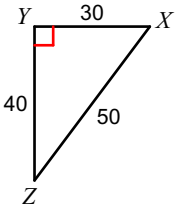
23)



similar; SAS similarity

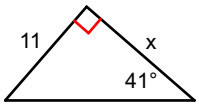
For #24: Find the trig ratio. For #25-#28, solve for the missing side or missing angle.

24) $\cos X$



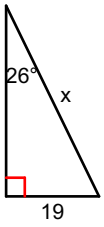
$\frac{3}{5}$

25)



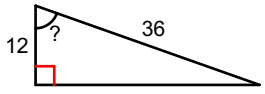
12.7

26)



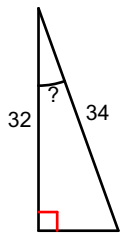
43.3

27)



71°

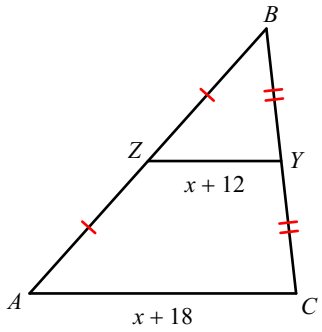
28)



20°

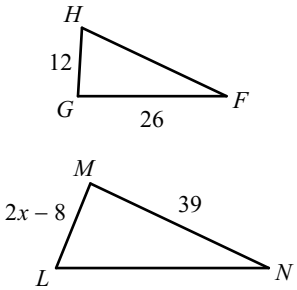
Solve for *x*.

29)



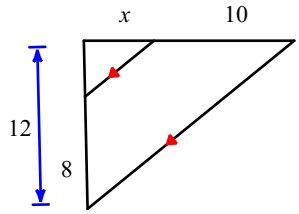
−6

30) $\triangle NML \sim \triangle FGH$



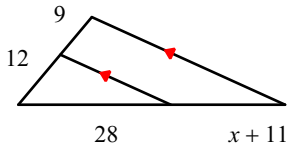
13

31)



5

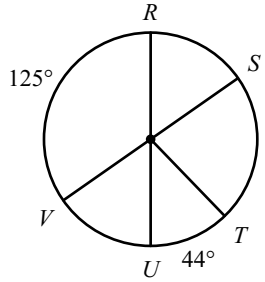
32)



10

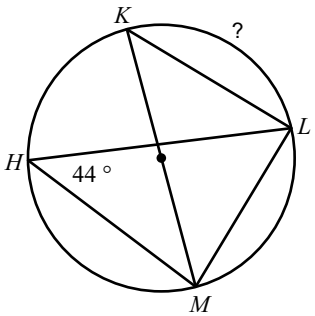
Find the measure of the arc or angle indicated. Assume that lines which appear to be diameters are actual diameters.

33) $m\widehat{SU}$



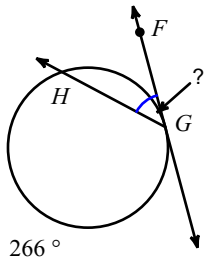
125°

34)



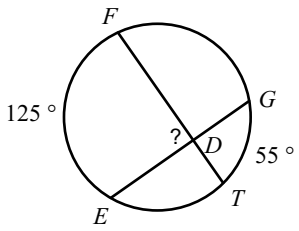
92°

35)



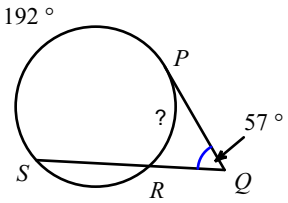
47°

36)



90°

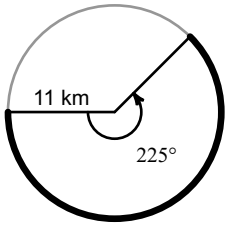
37)



78°

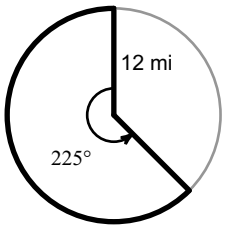
For #38, find the arc length. For #39, find the area of the shaded region.

38)



$\frac{55\pi}{4}$ km

39)



90π mi²

Find the circumference.

40) area = 49π cm²

14π cm

Find the radius.

41) circumference = 20π in

10 in

Find the diameter.

42) area = 100π cm²

20 cm