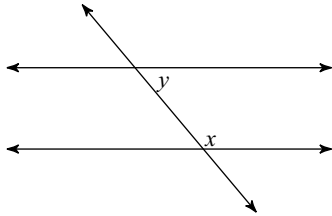


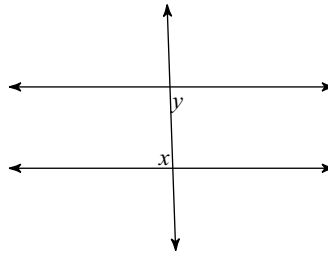
FINAL EXAM REVIEW (DAY 2)

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

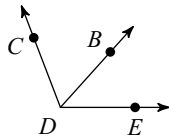
1)



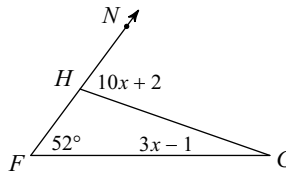
2)



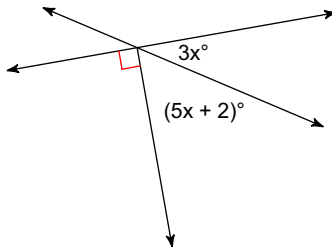
3) Find x if $m\angle CDE = 111^\circ$,
 $m\angle BDE = 9x - 6$,
 and $m\angle CDB = 10x + 3$.



4)

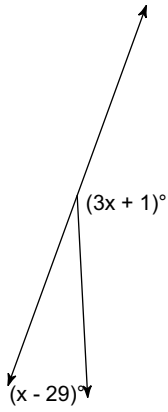


5)

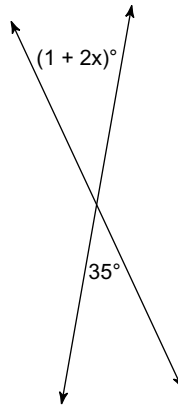


Find the value of x .

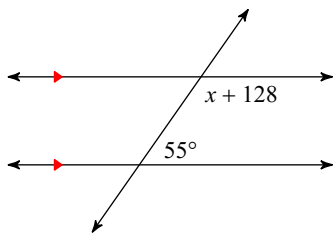
6)



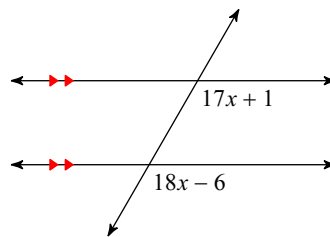
7)



8)

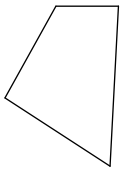


9)

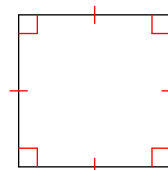


State all possible names for each figure.

10)

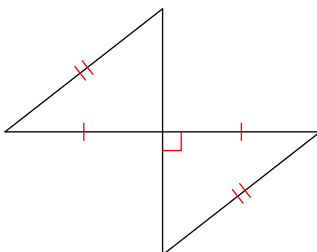


11)

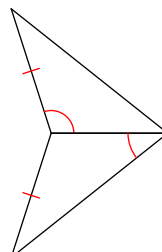


State if the two triangles are congruent. If they are, state how you know.

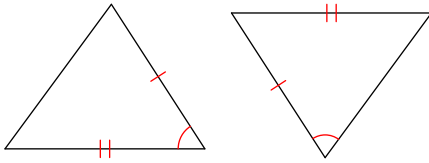
12)



13)

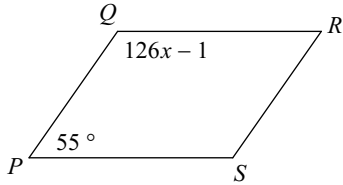


14)

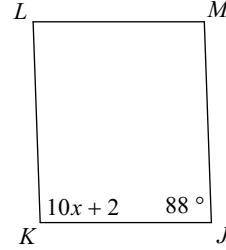


Solve for x . Each figure is a parallelogram.

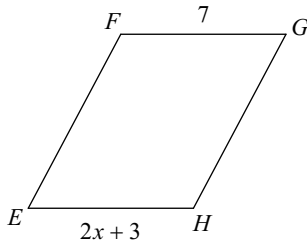
15)



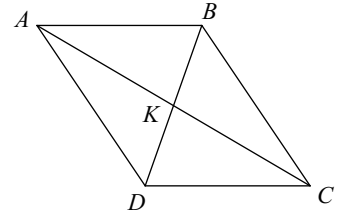
16)



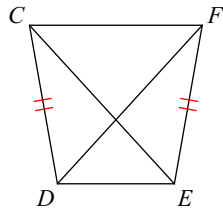
17)



18) $BD = 22$
 $KD = 5 + x$



19) $EC = 23$
 $FD = 14x - 5$

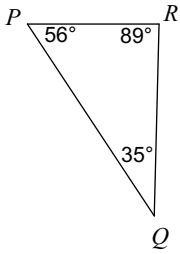


Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

20) 10, 8

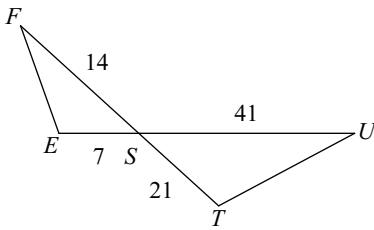
Order the sides of each triangle from shortest to longest.

21)

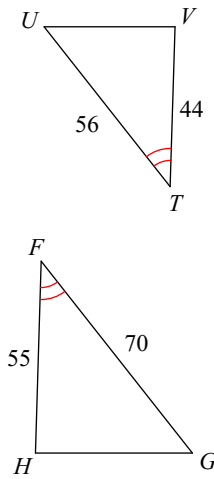


Determine whether the triangles are similar. If so, by what similarity postulate?

22) $\triangle STU \sim \triangle SEF$

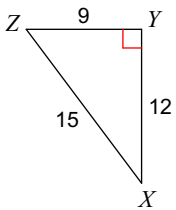


23) $\triangle FGH \sim \triangle TUV$

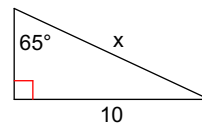


For #24: Find the trig ratio. For #25-#28, solve for the missing side or missing angle.

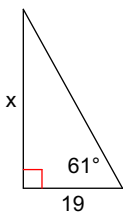
24) $\cos Z$



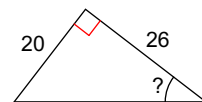
25)



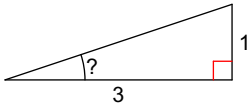
26)



27)

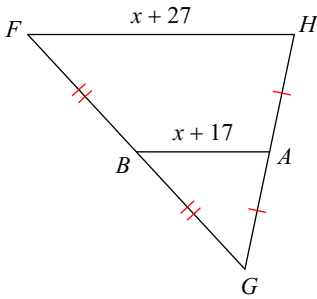


28)

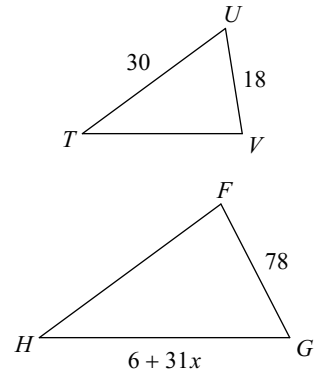


Solve for x .

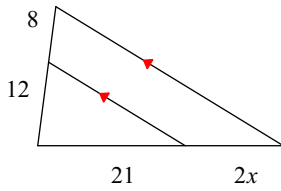
29)



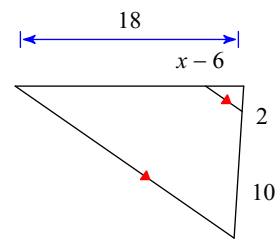
30) $\triangle HGF \sim \triangle TUV$



31)

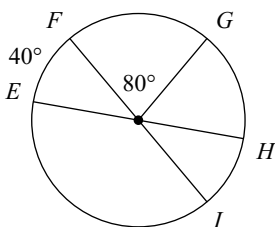


32)

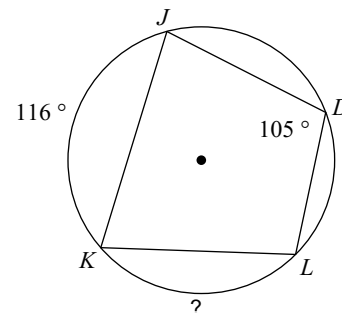


Find the measure of the arc or angle indicated. Assume that lines which appear to be diameters are actual diameters.

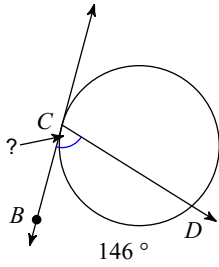
33) $m\widehat{IE}$



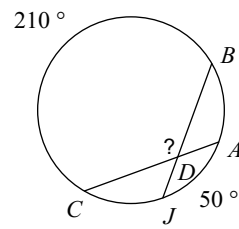
34)



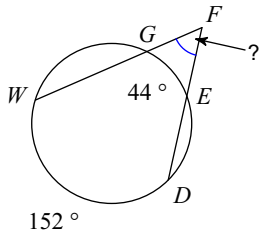
35)



36)

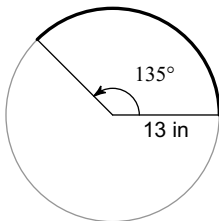


37)

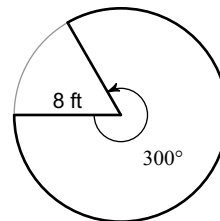


For #38, find the arc length. For #39, find the area of the shaded region.

38)



39)



Find the circumference.

40) area = 81π yd²

Find the radius.

41) circumference = 6π yd

Find the diameter.

42) area = 49π mi²

Answers to FINAL EXAM REVIEW (DAY 2)

- 1) consecutive interior 2) alternate interior 3) 6 4) 7
5) 11 6) 52 7) 17 8) -3
9) 7 10) quadrilateral
11) quadrilateral, parallelogram, rhombus, rectangle, square
12) HL 13) Not congruent 14) Not congruent 15) 1
16) 9 17) $\frac{2}{\overline{RP}}, \overline{RQ}, \overline{QP}$ 18) 6 19) 2
20) $2 < x < 18$ 21) $\overline{RP}, \overline{RQ}, \overline{QP}$ 22) not similar
23) similar; SAS similarity 24) $\frac{3}{5}$ 25) 11.0
26) 34.3 27) 38° 28) 18° 29) -7
30) 4 31) 7 32) 9 33) 140°
34) 94° 35) 73° 36) 130° 37) 54°
38) $\frac{39\pi}{4}$ in 39) $\frac{160\pi}{3}$ ft² 40) 18π yd 41) 3 yd
42) 14 mi