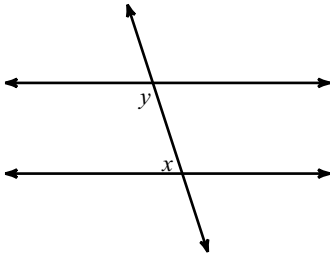


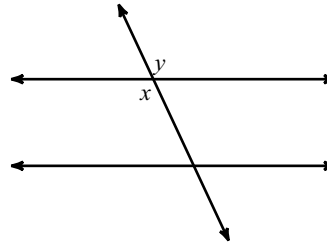
Final Exam REVIEW B

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

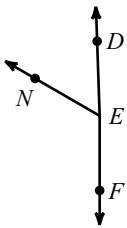
1)



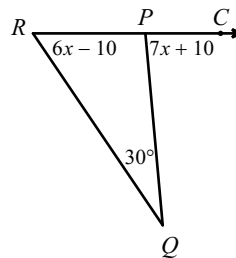
2)



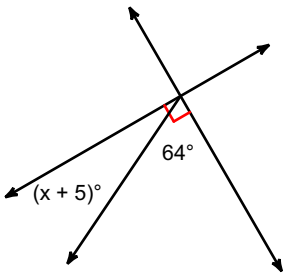
3) Find x if $m\angle FED = 178^\circ$,
 $m\angle NED = 30x - 2$, and $m\angle FEN = 2 + 59x$.



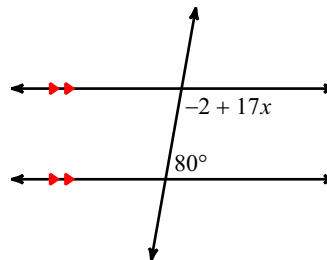
4)



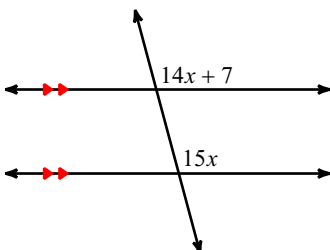
5)



6)

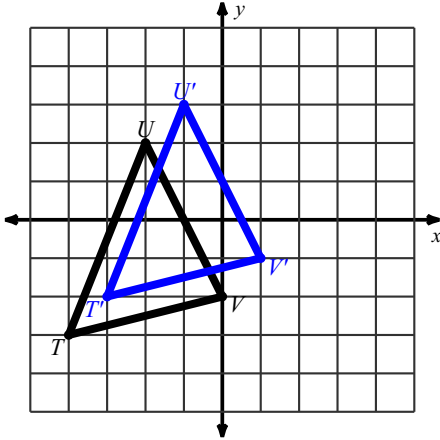


7)

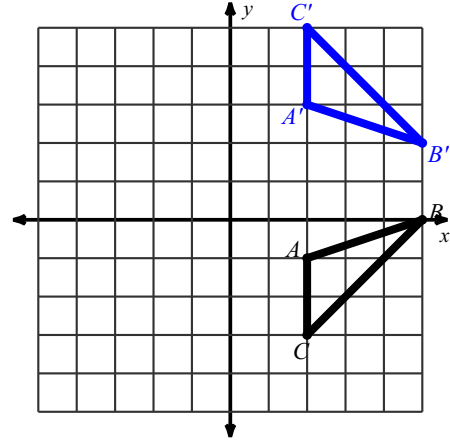


Write a rule to describe each transformation.

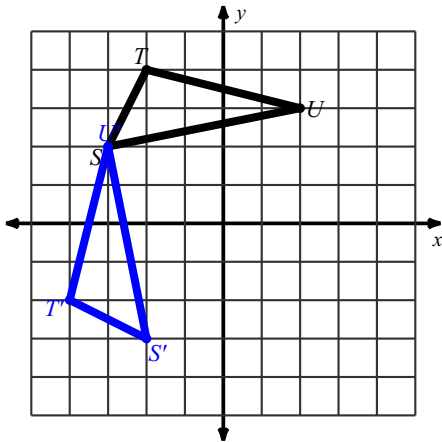
8)



9)

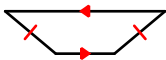


10)

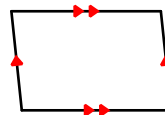


State all possible names for each figure.

11)

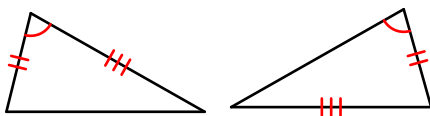


12)

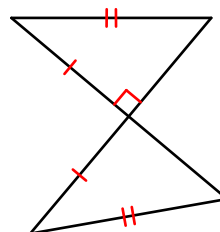


State if the two triangles are congruent. If they are, state how you know.

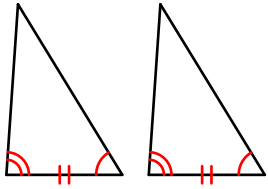
13)



14)

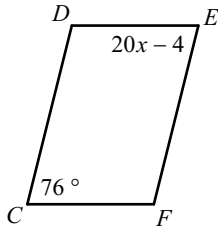


15)

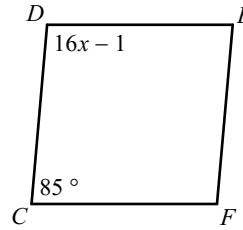


Solve for x . Each figure is a parallelogram.

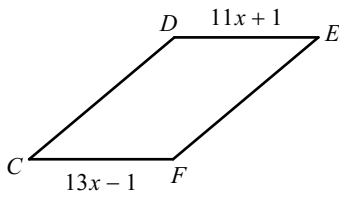
16)



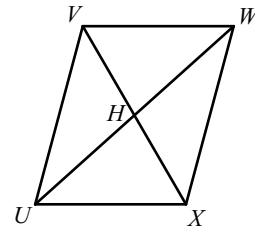
17)



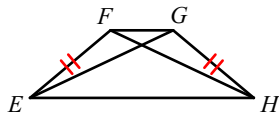
18)



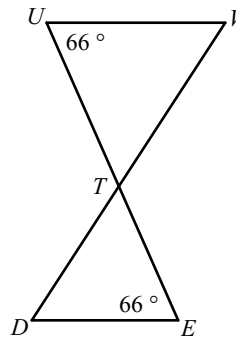
19) $HX = 14$
 $VX = 3x + 1$



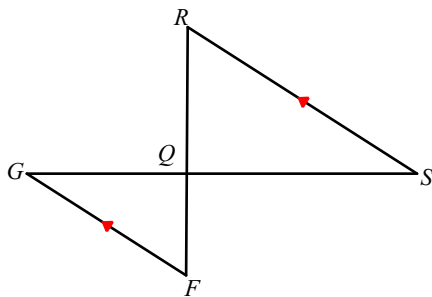
20) $FH = 15$
 $EG = -x + 27$



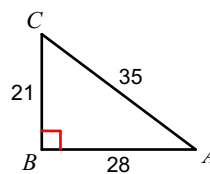
21)



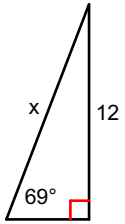
22) $\triangle QRS \sim \triangle QFG$



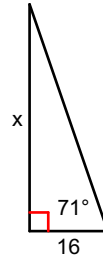
23) $\tan A$



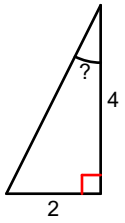
24)



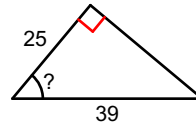
25)



26)

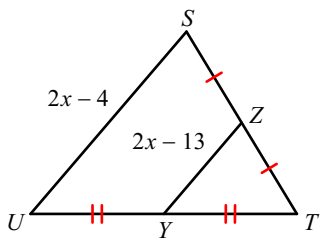


27)

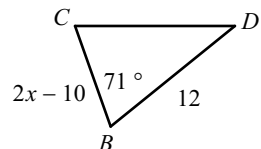
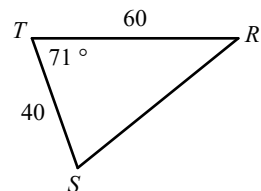


Solve for x .

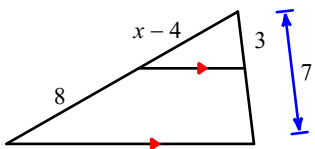
28)



29) $\triangle TSR \sim \triangle BCD$

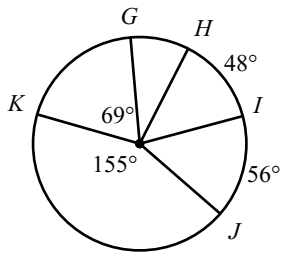


30)

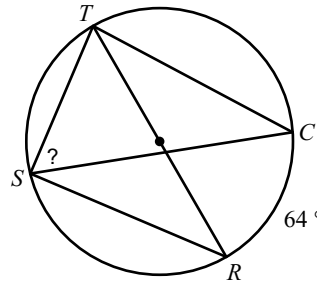


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

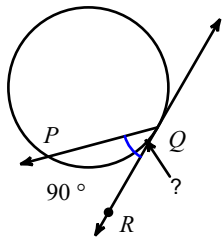
31) $m\widehat{IJG}$



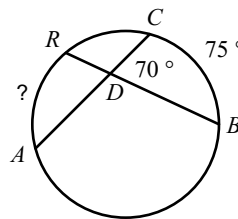
32)



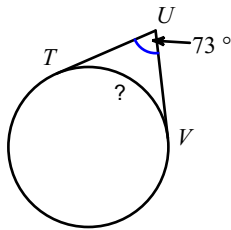
33)



34)

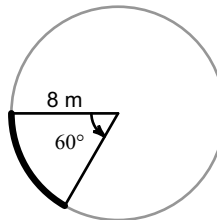


35)



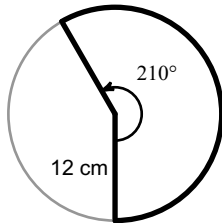
Find the length of the arc.

36)



Find the area of the sector.

37)



38) area = 9π ft²
circumference = _____

39) circumference = 20π m

40) area = 49π km²
diameter = _____

Answers to Final Exam REVIEW B

- 1) consecutive interior 2) vertical 3) 2 4) 10
5) 21 6) 6 7) 7
8) translation: $(x, y) \rightarrow (x + 1, y + 1)$ 9) reflection across $y = 1$
10) rotation 90° counterclockwise about the origin 11) quadrilateral, trapezoid, isosceles trapezoid
12) quadrilateral, parallelogram 13) Not congruent 14) HL
15) ASA 16) 4 17) 6 18) 1
19) 9 20) 12 21) similar; AA similarity
22) similar; AA similarity 23) $\frac{3}{4}$ 24) 12.9
25) 46.5 26) 27° 27) 50° 28) 11
29) 9 30) 10 31) 280° 32) 58°
33) 45° 34) 65° 35) 107° 36) $\frac{8\pi}{3}$ m
37) 84π cm² 38) 6π ft 39) 10 m 40) 14 km