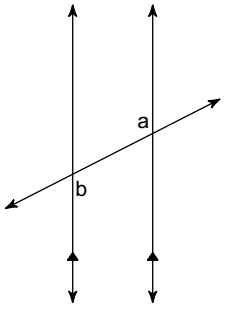
Final Exam Review

Date_____ Period____

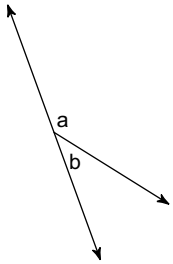
Name the relationship: complementary, linear pair, vertical, adjacent, alternate interior, corresponding, or alternate exterior.

1)



A) corresponding
B) complementary
C) adjacent
D) alternate interior

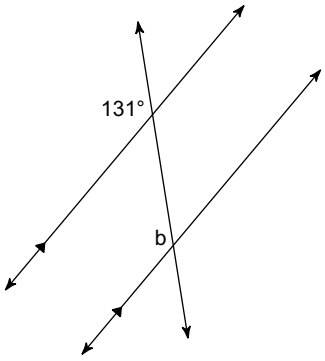
2)



A) alternate exterior
B) linear pair
C) alternate interior
D) vertical

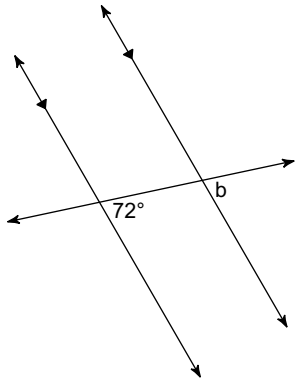
Find the measure of angle b.

3)



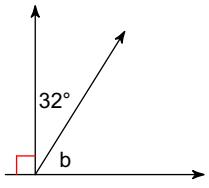
A) 131° B) 126°
C) 52° D) 49°

4)



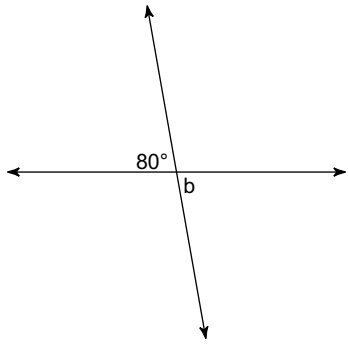
A) 72° B) 15°
C) 18° D) 165°

5)



A) 58° B) 122°
C) 116° D) 64°

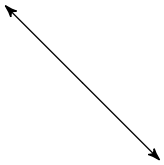
6)



A) 100° B) 114°
C) 120° D) 80°

Classify each angle as acute, obtuse, right, or straight.

7)



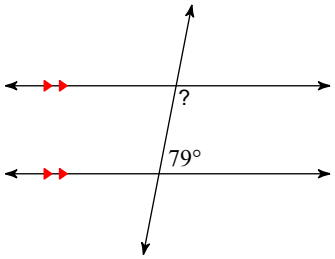
A) straight B) acute
C) right D) obtuse

8) 175°

A) obtuse B) right
C) acute D) straight

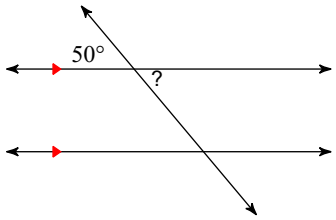
Find the measure of each angle indicated.

9)



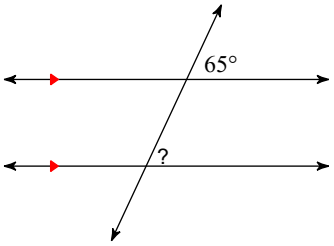
A) 130° B) 112°
C) 101° D) 96°

10)



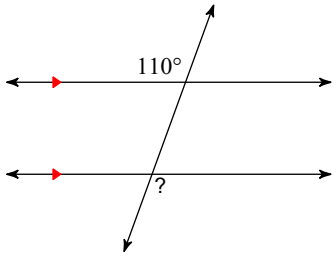
A) 115° B) 50°
C) 36° D) 64°

11)



A) 105° B) 65°
C) 50° D) 85°

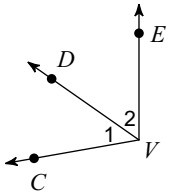
12)



A) 110° B) 106°
C) 105° D) 120°

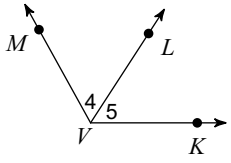
Name all the angles that have *V* as a vertex.

13)



A) ∠*1*, ∠*2*, ∠*VED*
B) ∠*1*, ∠*2*, ∠*EDC*
C) ∠*1*, ∠*2*, ∠*DCV*
D) ∠*1*, ∠*2*, ∠*CVE*

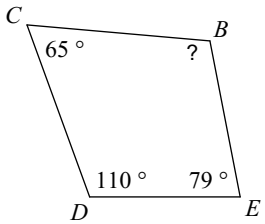
14)



A) ∠*4*, ∠*5*, ∠*VKL*
B) ∠*4*, ∠*5*, ∠*KLM*
C) ∠*4*, ∠*5*, ∠*MVK*
D) ∠*4*, ∠*5*, ∠*LMV*

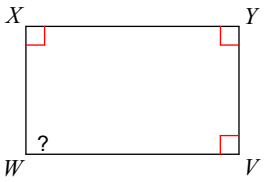
Find the measure of each angle indicated.

15)



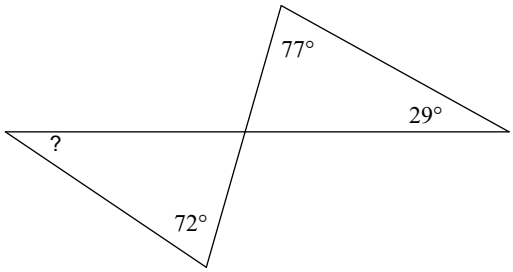
A) 35° B) 100°
C) 115° D) 106°

16)



A) 75° B) 90°
C) 70° D) 30°

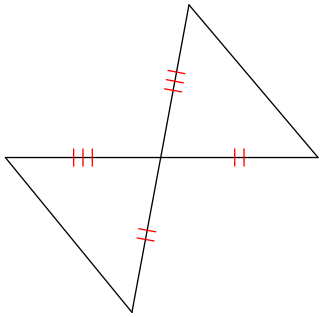
17)



A) 58° B) 152°
C) 34° D) 115°

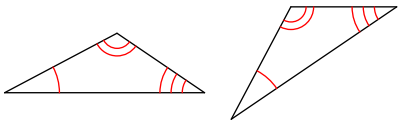
State if the two triangles are congruent. If they are, state how you know.

18)



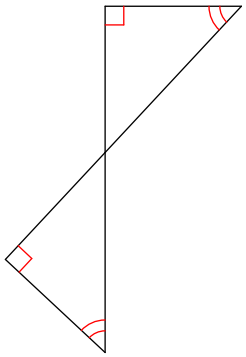
A) ASA B) SAS
C) AAS D) Not congruent

19)



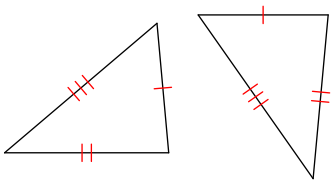
A) SAS B) Not congruent
C) SSS D) AAS

20)



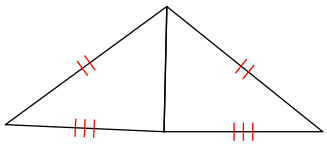
A) Not congruent B) ASA
C) AAS D) SSS

21)



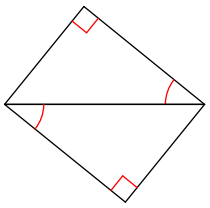
A) SSS B) SAS
C) Not congruent D) AAS

22)



A) AAS
B) ASA
C) Not congruent
D) SSS

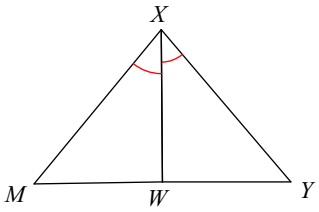
23)



A) AAS
B) ASA
C) Not congruent
D) SSS

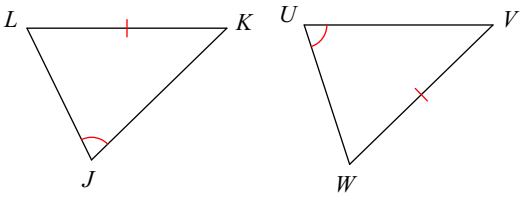
State what additional information is required in order to know that the triangles are congruent for the reason given.

24) ASA



A) $\angle WXY \cong \angle WXM$
B) $\overline{WX} \cong \overline{WX}$
C) $\overline{XY} \cong \overline{XM}$
D) $\angle YWX \cong \angle MWX$

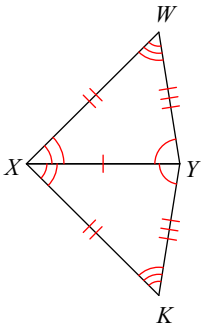
25) AAS



A) $\angle K \cong \angle V$ or $\angle L \cong \angle W$
B) $\overline{JK} \cong \overline{UV}$ or $\overline{LJ} \cong \overline{WU}$
C) $\overline{JK} \cong \overline{UV}$ or $\overline{KL} \cong \overline{VW}$
D) $\overline{KL} \cong \overline{VW}$ or $\overline{LJ} \cong \overline{WU}$

Complete each congruence statement by naming the corresponding angle or side.

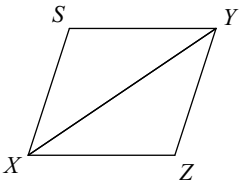
26) $\Delta YXW \cong \Delta YXK$



$\overline{YX} \cong$?

A) $\overline{YX}$
B) $\angle YXK$
C) $\overline{XK}$
D) $\overline{KY}$

27) $\Delta XYZ \cong \Delta YXS$

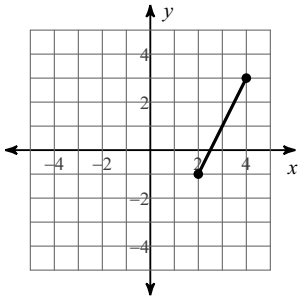


$\angle XYZ \cong$?

A) $\angle Y$
B) $\angle SYX$
C) $\angle S$
D) $\angle YXS$

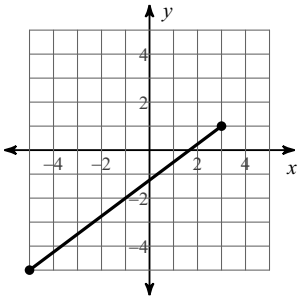
Find the distance between each pair of points.

28)



A) $\sqrt{10}$ B) $2\sqrt{5}$
C) 2 D) $\sqrt{6}$

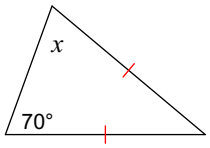
29)



A) $\sqrt{2}$ B) $\sqrt{14}$
C) $2\sqrt{5}$ D) 10

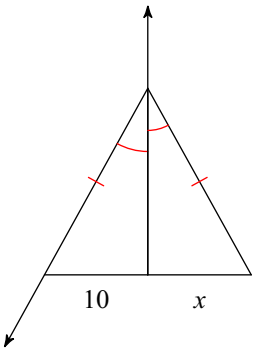
Find the value of *x*.

30)



A) 74° B) 84°
C) 87° D) 70°

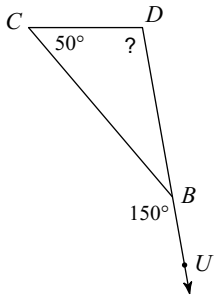
31)



A) 10 B) 9
C) 6 D) 11

Find the measure of each angle indicated.

32)



A) 30° B) 86°
C) 76° D) 100°

Find the midpoint of the line segment with the given endpoints.

33) $(-2, 1), (0, 7)$

A) $(-1, -3)$ B) $\left(-\frac{1}{2}, 3\frac{1}{2}\right)$

C) $(2, 13)$ D) $(-1, 4)$

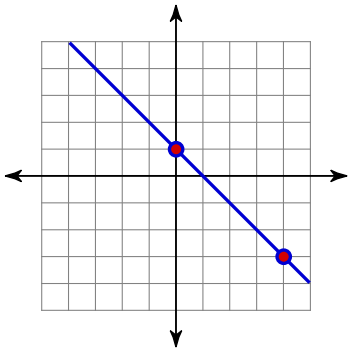
34) $(7, -10), (-5, 0)$

A) $(1, -5)$ B) $(-17, 10)$

C) $\left(-1\frac{1}{2}, -2\frac{1}{2}\right)$ D) $(6, -5)$

Find the slope of each line.

35)



A) 1 B) $-\frac{1}{2}$

C) -1 D) $\frac{1}{2}$

Find the slope of the line through each pair of points.

36) $(-20, 5), (-14, 16)$

A) $-\frac{6}{11}$ B) $\frac{11}{6}$

C) $-\frac{11}{6}$ D) $\frac{6}{11}$

37) $(18, -1), (19, 0)$

A) $\frac{1}{5}$ B) 1

C) -1 D) $-\frac{1}{5}$

Find the slope of a line parallel to each given line.

38) $y = -\frac{1}{3}x + 1$

A) -3 B) $\frac{1}{3}$

C) $-\frac{1}{3}$ D) 3

Find the slope of a line perpendicular to each given line.

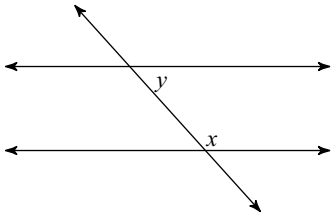
39) $y = -6x - 5$

A) 6 B) $-\frac{1}{6}$

C) $\frac{1}{6}$ D) -6

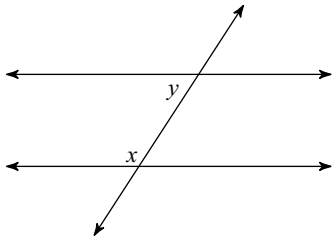
Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.

40)



A) alternate interior
B) corresponding
C) alternate exterior
D) consecutive interior

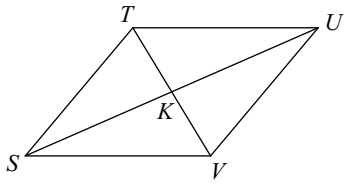
41)



A) alternate interior
B) alternate exterior
C) consecutive interior
D) corresponding

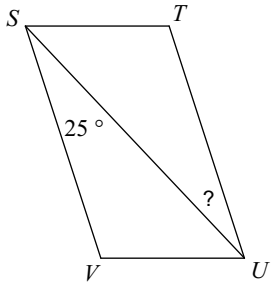
Find the measurement indicated in each parallelogram.

42) $TK = 21.7$
Find TV



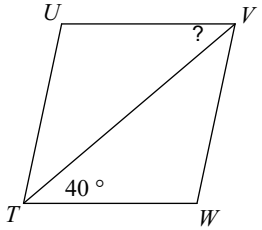
A) 43.4 B) 10.3
C) 15.5 D) 14

43)



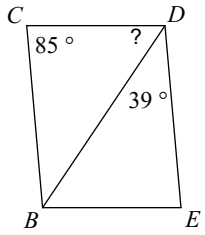
A) 105° B) 25°
C) 55° D) 145°

44)



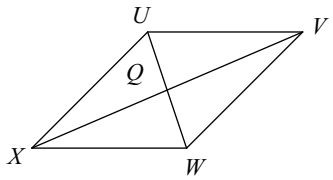
A) 34° B) 125°
C) 95° D) 40°

45)



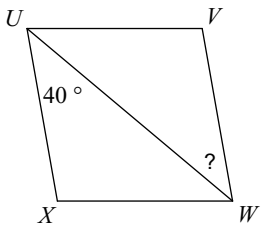
A) 56° B) 60°
C) 105° D) 76°

46) $VQ = 13.4$
Find QX



A) 18 B) 23.2
C) 13.4 D) 16.6

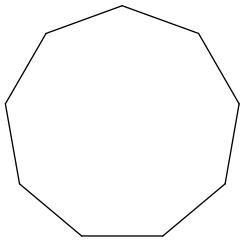
47)



A) 90° B) 40°
C) 55° D) 65°

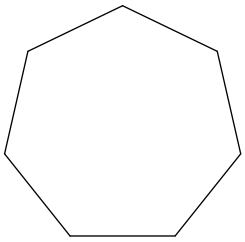
Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

48)



A) 720° B) 1620°
C) 1260° D) 900°

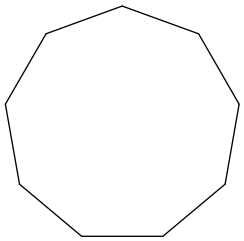
49)



A) 1440° B) 900°
C) 540° D) 1620°

Find the measure of one exterior angle in each polygon. Round your answer to the nearest tenth if necessary.

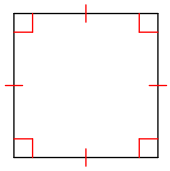
50)



A) 90° B) 40°
C) 25.7° D) 60°

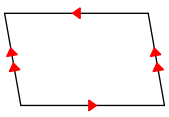
State the most specific name for each figure.

51)



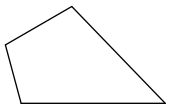
A) rhombus B) parallelogram
C) square D) quadrilateral

52)



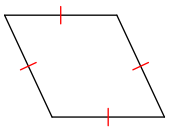
A) rhombus B) parallelogram
C) rectangle D) quadrilateral

53)



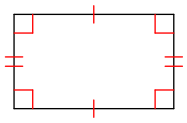
A) quadrilateral
B) rhombus
C) rectangle
D) parallelogram

54)



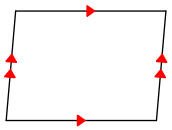
A) parallelogram
B) quadrilateral
C) rhombus
D) rectangle

55)



A) quadrilateral
B) rectangle
C) parallelogram
D) rhombus

56)



A) rhombus
B) quadrilateral
C) parallelogram
D) rectangle

State if the three numbers can be the measures of the sides of a triangle.

57) 11, 13, 11

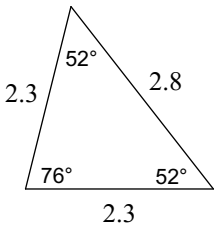
A) No
B) Yes

58) 6, 11, 3

A) Yes
B) No

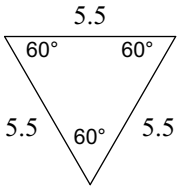
Classify each triangle by its angles and sides.

59)



A) right scalene
B) acute isosceles
C) obtuse scalene
D) scalene isosceles

60)



A) equilateral
B) right equilateral
C) right scalene
D) acute right