Geometry 1-2   Name_____

Marking Period R2 Review   Date_____ Period_____
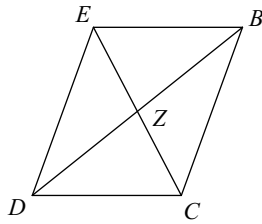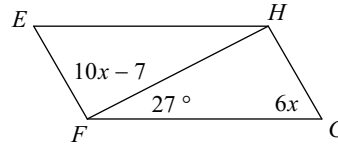
Find the measurement indicated in each parallelogram. Show all work. BOX your answers.

1) $CZ = 2x + 14$
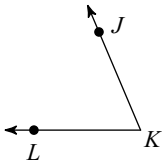 $ZE = x + 14$
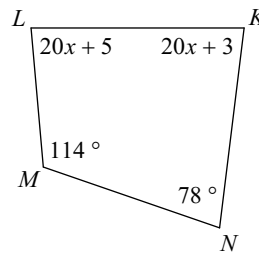   Find CE

2) Find $m\angle GHE$

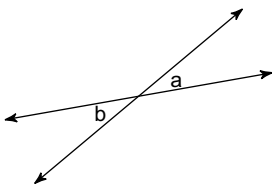**Name the angle in two ways, name the vertex of the angle, and name the sides of the angle.**

3)

Find the measure of the indicated angle. Show all work. BOX your answer.
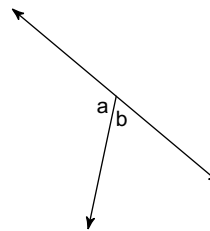
4) $m\angle K$

Name the *a* & *b* angle relationship using the following terms: corresponding, vertical, adjacent, linear pair, alternate interior, or alternate exterior. If more than one term applies, put both.
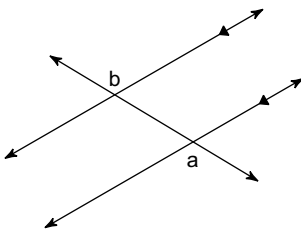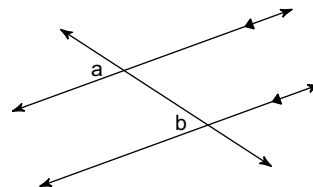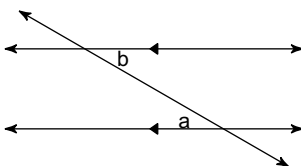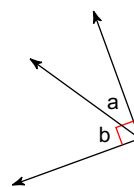
5)

6)

7)

8)

9)

10)

Classify each triangle as acute, obtuse, or right, and ALSO as scalene, isosceles, or equilateral.

11)

61° 6.2

3

29°

5.4

12)

76°

4.1 4.1

52° 52°

5.1

13)

2.7

122° 29°

2.7

29° 4.7

14)

60°

6.9 6.9

60° 60°

6.9
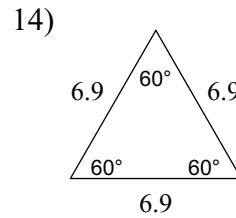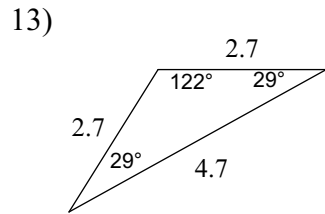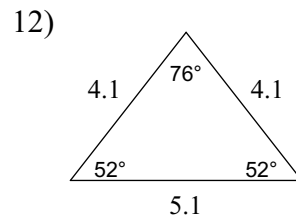
Find the measure of each angle indicated. Show all work. BOX your answers.

15)

135°

80° ?

85°

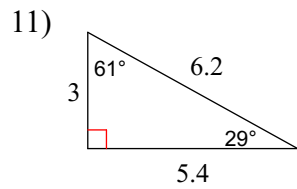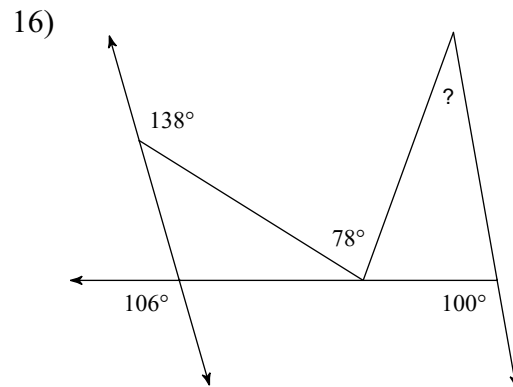16)

138°

?

78°

106° 100°
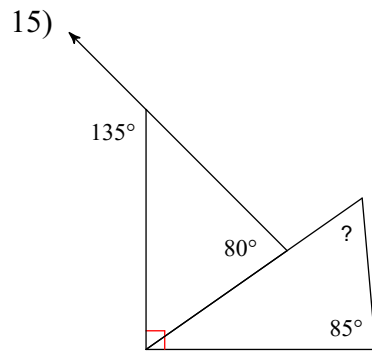
Find the measure of the indicated angle that makes lines *u* and *v* parallel. BOX answer.

17)

u

134°

? *v*
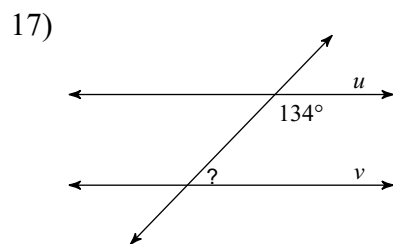
Find the measure of the angle indicated in bold. Show all work. BOX your answer.

18)

$10x + 10$

$11x$
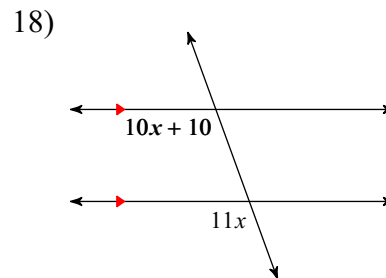
Based on the markings shown, state ALL possible names for each polygon.

19)

20)
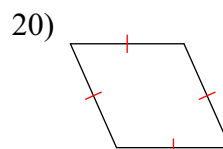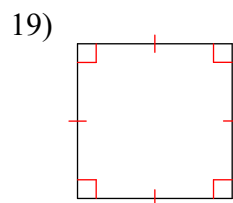
For the diagram, write a statement for the information provided (in red).
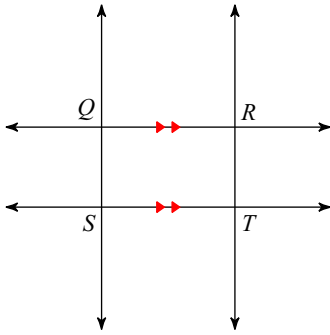
21)

Name three different angles. You may use the angle numbers, if appropriate.

22)

Write the SLOPE-INTERCEPT form of the equation of the line described. BOX answer.

23) through: $(3, 3)$ and $(4, 5)$

Write the STANDARD form of the equation of the line described. BOX your answer.
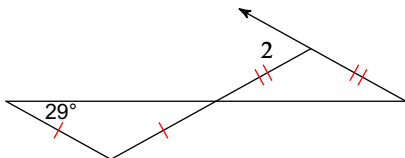
24) through: $(4, -3)$, perp. to $y = \dfrac{4}{5}x + 2$

Find the distance between the pair of points. Leave your answer as a simplified radical.
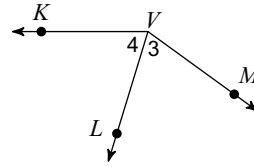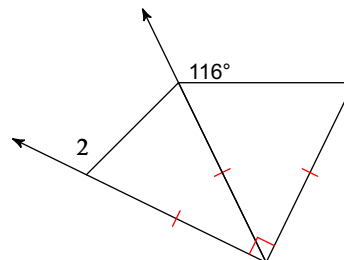
25) $(-8, -6)$, $(-2, 3)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

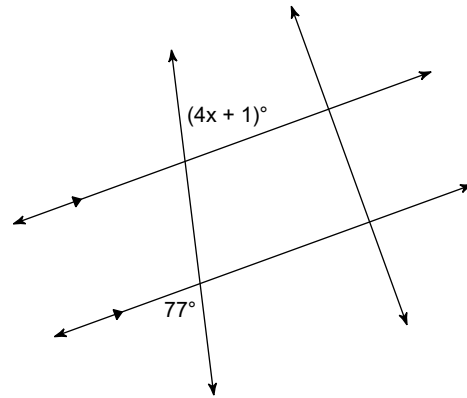26) Endpoint: $(-8, 5)$, midpoint: $(-3, 10)$

Find the value of *x*. BOX your answers.

27) $m\angle 2 = 7x + 2$

28) $m\angle 2 = 13x + 5$

**Find the measure of the angle indicated.
Show all work. BOX your answer.**

29) Find $m\angle B$.

B ——————— D   E
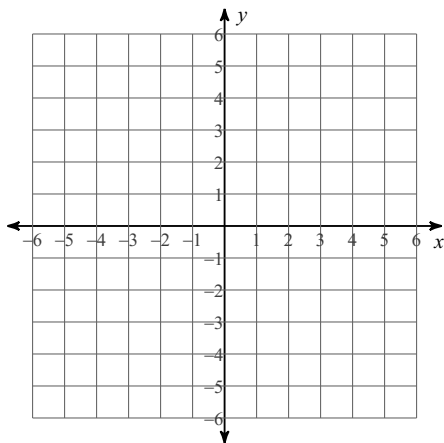$28x + 1$ $141°$

$17x + 5$

C
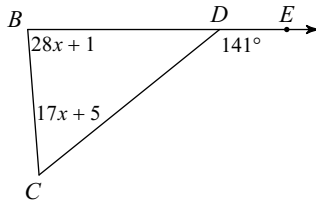
Find the value of x. BOX your answer.
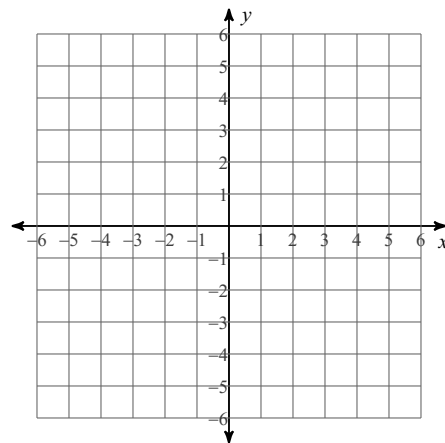
30)

$(4x + 1)°$

$77°$

Sketch the graph of each line.

31) $5x - 4y = 4$

32) $y = -4$

33) When are corresponding angles NOT congruent?

34) What is space?

35) If two angles form a linear pair, are they also always adjacent and supplementary?

36) What does it mean if two figures are congruent?

37) What does it mean if two figures are similar?

38) Why can a plane not actually be constructed?

39) What is a reflex angle?

40) What is a polygon?