Review Chapter 7 – Quadrilaterals and Other Polygons

WRITE EACH PROPERTY AND EACH FIGURE FOR WHICH THE PROPERTY IS TRUE. THE FIRST LETTER OF EACH PROPERTY IS GIVEN.

PROPERTY	quadrilateral	Parallelogram	Rhombus	Rectangle	Square	Trapezoid	kite
1) F							
2) O							
3) O							
4) O							
5) C							
6) D							
7) D							
8) D							
9) D							
10) D							
11) A							
12) A							

FILL IN THE BLANK.

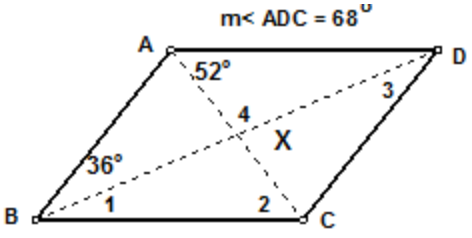
13) A quadrilateral with two pairs of parallel sides is called a _____.

14) A parallelogram with four congruent sides is called a _____.

15) A parallelogram with four right angles is called a _____.

16) A rectangle with four congruent sides is called a _____.

17) A figure with four sides is called a _____.



GIVEN: ▭ ABCD. FIND THE MEASURES OF THE INDICATED ANGLES.

18) m∠ 1 = _____m∠ 2 = _____m∠ 3 = _____m∠ 4 = _____

AB // _____ DC = _____ AX = _____ DX = _____

19) LIST 5 WAYS TO PROVE A QUADRILATERAL IS A PARALLELOGRAM.

1) _____

2) _____

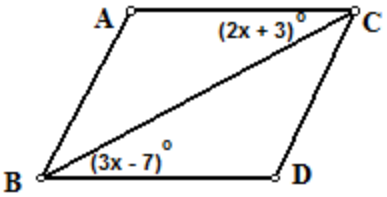
3) _____

4) _____

5) _____

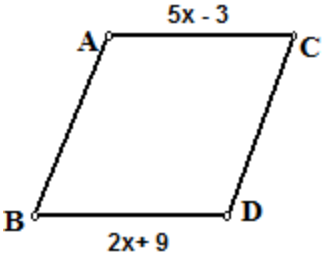
EACH OF THE FOLLOWING ARE PARALLELOGRAMS. SOLVE FOR THE INDICATED MEASURE.SHOW YOUR WORK!

20) x = _____



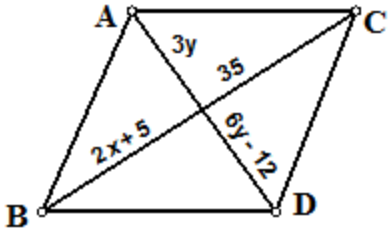
21) x = _____

AC = _____



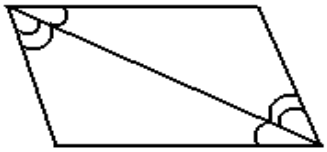
22) x = _____

23) y = _____

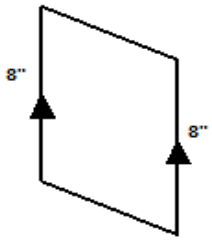


DECIDE IF THEIR IS ENOUGH INFORMATION TO DETERMINE WHETHER EACH OF THE FOLLOWING QUADRILATERA PARALLELOGRAM. WRITE "NO" OR "YES". JUSTIFY YOUR ANSWER.

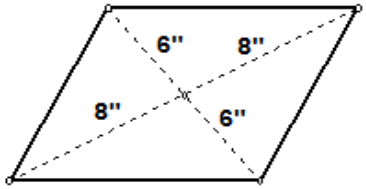
24) _____



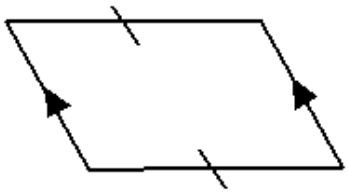
25) _____



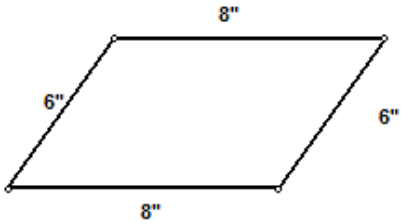
26) _____



27) _____

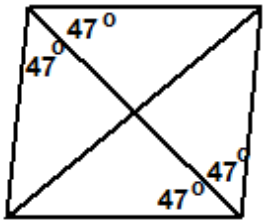


28) _____

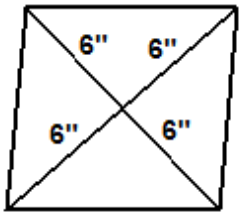


DECIDE IF EACH OF THE FOLLOWING <u>PARALLELOGRAMS</u> IS A "RECTANGLE" OR "RHOMBUS". WRITE "NEITHER", IF THERE IS NOT ENOUGH INFORMATION.

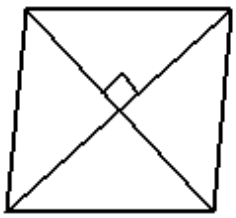
29) _____



30) _____



31) _____



32) In complete sentences, compare and contrast a trapezoid and a parallelogram.

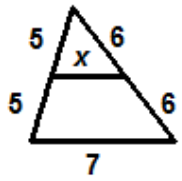
33) A trapezoid has _____ parallel sides.

34) The _____ of a trapezoid is the segment joining the midpoints of the legs.

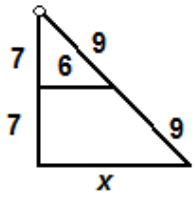
35) The _____ of a triangle is the segment joining the midpoints of any two sides of the triangle.

IN EACH PROBLEM FIND A VALUE FOR x WHERE POSSIBLE. IF IT IS NOT POSSIBLE, WRITE NP".

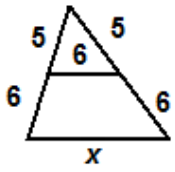
36) x = _____



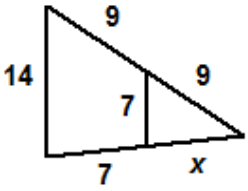
37) x = _____



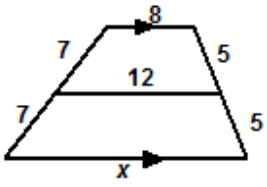
38) x = _____



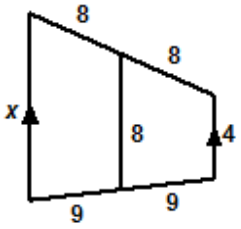
39) x = _____



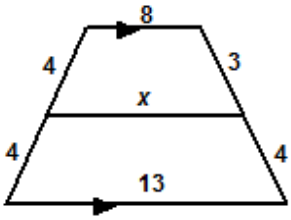
40) x = _____



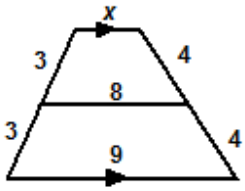
41) x = _____



42) x = _____



43) x = _____

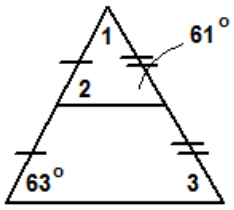


FIND THE INDICATED MEASURES. SHOW YOUR WORK!!!!

44) m ∠ 1 = _____

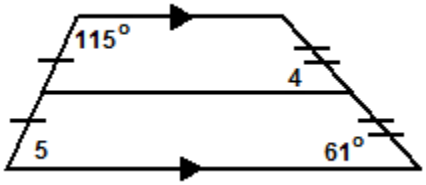
m ∠ 2 = _____

m ∠ 3 = _____



45) m ∠ 4 = _____

m ∠ 5 = _____

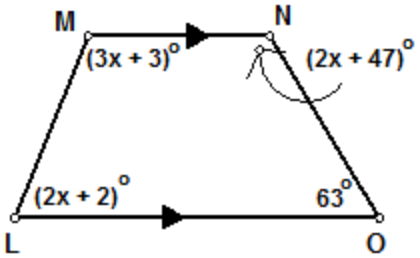


46) x = _____

m ∠ L = _____

m ∠ M = _____

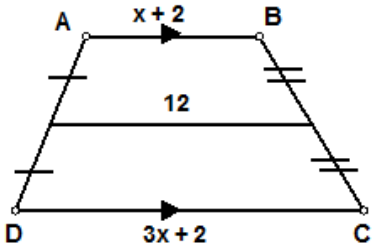
m ∠ N = _____



47) x = _____

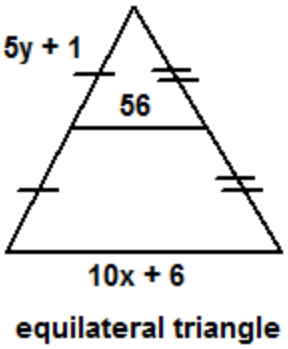
AB = _____

DC = _____



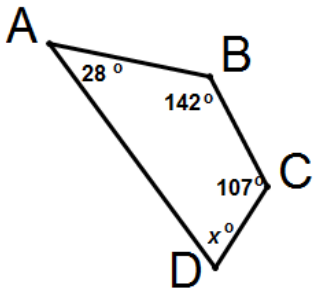
48) x = _____

y = _____



equilateral triangle

49) x =_____



50) Find the sum of the interior angles of a convex 120-gon

_____