Geometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet 6.1 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_

Directions: Find the value of each variable in the figure and each side measure.

x + 2

2x -3.5

1) 2)

x + 12

x + 0.5

2y – 2.8

13

y + 2

y -6

2x

x

y + 1

3) 4)

4

2y

3x - 4

2y - 5

4x + 3

2x - 7

5x

 3y

4x + 3

 15

5) 6)

2y - 5

y - 1

3y - 9

Directions: Draw each figure if possible. If not possible, explain.

7) A parallelogram that is neither a rectangle nor a rhombus.

8) An isosceles trapezoid with vertical and horizontal congruent sides.

9) A trapezoid with only one right angle.

10) A trapezoid with two right angles.

11) A rhombus that is not a square.

12) A kite with two right angles.

Directions: True or False. If False, explain.

13) All squares are rectangles.

14) A trapezoid is a parallelogram

15) A rhombus can be a kite

16) Some parallelograms are squares

17) Every quadrilateral is a parallelogram

18) All rhombuses are squares

Directions: Name each type of special quadrilateral that can meet the given condition. Make sketches to support your answers.

19) Exactly one pair of congruent sides

20) Two pairs of parallel sides

21) Four right angles

22) Adjacent sides that are congruent