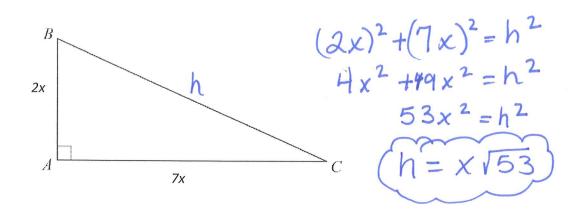
Name: _____

Midterm Practice Day ONE

1. <u>Trapezoid</u> is a quadrilateral with one pair of opposite sides parallel.

- 2. Rectargle is a quadrilateral with 4 right angles.
- 3. **Phombus** is a quadrilateral with 4 congruent sides.
- 4. <u>Porallelogram</u> is a quadrilateral with opposite sides parallel.
- 5. ______ is a quadrilateral with 2 pairs of consecutive congruent sides.
- 6. <u>Issues trap</u> is a quadrilateral with one pair of opposite sides parallel and non parallel sides (legs) congruent.
- 7. Square is a quadrilateral with 4 right angles and congruent sides.
- 8. In the figure below, $\triangle ABC$ is a right triangle with legs that measure 2x and 7x inches, respectively. What is the length, in inches, of the hypotenuse?



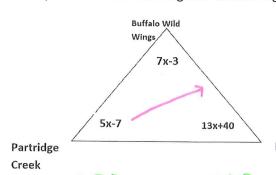
9. Find x in the figure below.

n=6

Sum of le int.
$$\angle S$$

 $(x+70)^{\circ}$ x° Sum of le int. $\angle S$
 $(x+30)^{\circ}$ $180(n-2) = 180(6-2) = 720^{\circ}$
 $2x^{\circ}$ Now add all $\angle S$ and $SET = to 720^{\circ}$
 $2x-10+2x+2x+x+x+70+x+30=720$
 $9x+90=720$ $x=70^{\circ}$
 $9x=630$

10. Partridge Creek, Buffalo Wild Wings, and Dakota High School form a triangle on a map. What route would have the shortest drive? (i.e. Which two buildings are closest together?) Show me mathematically



7x - 3 + 13x + 40 + 5x - 7 = 18025x + 30 = 180

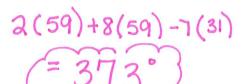
25x=150

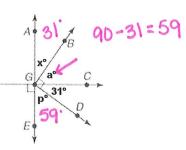
Dakota High School

- 11. If all sides of a quadrilateral are 17m, classify all that apply.
- Parallelogram 🗸 I.
- Rhombus V II.
- III. Rectangle
- IV. Square
- a. I only
- b. II only
- III only
- d. IV only

- I & II
 - II & IV
 - g. I, II & IV
 - ALL four
- 12. If all angles of a quadrilateral are 90 degrees and all sides are 17m, classify all that apply.
- I. Parallelogram
- II. Rhombus
- III. Rectangle
- IV. Square
- I only
- II only
- III only
- d. IV only

- e. I & II
- II & IV
- g. I, II & IV
- h. ALL four
- 13. What is the value of 2a + 8p 7x?





- 14. Find x and y if \overline{UV} bisects \overline{TW} and UV = 40.
- 3y-1+2y+6=40 (3)
- 2nd) 72 = 2w def of seg 3x-2 = 3y+1 3x-2 = 3(7)+1 3x-2 = 22