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

Midterm Practice Day ONE

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with one pair of opposite sides parallel.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with 4 right angles.

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with 4 congruent sides.

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with opposite sides parallel.

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with 2 pairs of consecutive congruent sides.

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with one pair of opposite sides parallel and non parallel sides (legs) congruent.

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a quadrilateral with 4 right angles and congruent sides.

8. In the figure below, $∆ABC$ is a right triangle with legs that measure 2x and 7x$3x$ inches, respectively. What is the length, in inches, of the hypotenuse?



*2x*

*7x*

9. Find x in the figure below.



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



X= \_\_\_\_\_ <BW3 = \_\_\_\_\_\_\_\_\_\_\_ <DHS= \_\_\_\_\_\_\_\_\_\_\_\_\_\_ <PC= \_\_\_\_\_\_\_\_\_\_\_\_

11. If all sides of a quadrilateral are 17m, classify all that apply.

**I. Parallelogram**

**II. Rhombus**

**III. Rectangle**

**IV. Square**

|  |  |  |  |
| --- | --- | --- | --- |
| a. | I only  | e. | I & II  |
| b. | II only  | f. | II & IV |
| c. | III only  | g. | I, II & IV |
| d. | IV only  | h. | 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**

|  |  |  |  |
| --- | --- | --- | --- |
| a. | I only  | e. | I & II  |
| b. | II only  | f. | II & IV |
| c. | III only  | g. | I, II & IV |
| d. | IV only  | h. | ALL four  |



13. What is the value of $2a+8p-7x$?

14.