**Day 02 Parallelograms & Conditions for Parallelograms HW Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_\_**

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| **1-9: Find x and y in each parallelogram based on the properties. Show your work!** | | |
| **1.** | **2.** | **3.** |
| **4.** | **5.** | **6.** |
| **7.** | **8.** | **9.** |
| **10-13: Use RSTU to find each measure or value.** | | |
| **10.** m∠RST = \_\_\_\_\_\_\_ **11.** m∠STU = \_\_\_\_\_\_\_  **12.** m∠RST = \_\_\_\_\_\_\_ **13.** b = \_\_\_\_\_\_\_\_ | | |
| **14-19: Fill in the blanks based on your knowledge of the given parallelogram below.** | | |
| **14.**  **15.**  **16.**  **17.** is supplementary to \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_.  **18.**  **19.** | | |

**20-24: Circle words or phrases that can complete the following sentences to make statements that are ALWAYS true. (There may be more than one correct choice for some of the sentences.)**

**20.** Opposite sides of a parallelogram are (congruent/perpendicular/parallel).

**21.** Consecutive angles of a parallelogram are (complementary/supplementary/congruent).

**22.** Opposite angles of a parallelogram are (complementary/supplementary/congruent).

**23.** The diagonals of a parallelogram (bisect each other/are perpendicular/are congruent).

**24.** If a parallelogram has one right angle, then all of its other angles are (acute/right/obtuse) angles.

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| **25-32: Determine if each quadrilateral is a parallelogram. Explain your answer** | | | |
| **25.** | **26.** | **27.** | **28.** |
| **29.** | **30.** | **31.** | **32.** |