**Secondary Math 2 2.3 Homework Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_**

**Properties of Parallelograms**

**Given the quadrilateral is a parallelogram, find the value of the variable(s).**

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**Review Problems:**

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|  | Find the and . Justify your answer. |  | Solve for x. |
|  | Solve for x. |  | Solve for and . |

**Construct a proof for each problem**

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|  | Given: is a parallelogram,  Prove: | |  |  | | --- | --- | | ***Statement*** | ***Reason*** | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |

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|  | Given: is a rectangle,  Prove: | |  |  | | --- | --- | | ***Statement*** | ***Reason*** | |  |  | |  |  | |  |  | |  |  | |  |  | |