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

**Properties of Parallelograms**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

**Review Problems:**

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

**Construct a proof for each problem**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Given: is a parallelogram,Prove:  |

|  |  |
| --- | --- |
| ***Statement*** | ***Reason*** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Given: is a rectangle, Prove:  |

|  |  |
| --- | --- |
| ***Statement*** | ***Reason*** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

 |