Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Properties of Logs Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_

**Simplify each expression.**

|  |  |
| --- | --- |
| 1.)  | 2.)  |
| 3.)  | 4.)  |

**Expand each logarithm.**

|  |  |
| --- | --- |
| 5.)  | 6.)  |
| 7.)  | 8.)  |

**Condense each logarithm.**

|  |  |
| --- | --- |
| 9.)  | 10.)  |
| 11.)  | 12.)  |