FST Name:

Notes 5.5 Date: Block:

***5.5 Properties of Logarithms***

|  |
| --- |
| Let *b, m,* and *n* be positive numbers such that . . . |
| **Product Property** |  |  |
| **Quotient Property** |  |  |
| **Power Property** |  |  |

**Condense the logarithmic expressions down to one logarithm.**

1) 2) 3)

**Expand the logarithmic expressions.**

1) 2) 3)

**Use and to evaluate the logarithms below.**

a) b) c)

**Solve each logarithmic equation.**

1. x 2. x 3)

4) 5) 6)