# Algebra 2 8.6 Natural Logarithms Name:

**The number *e***

Example:

 Find: (use the  **key** on your calculator)

**Natural Logarithm – a logarithm with base *e***

Examples:

**Simplifying Natural Logarithms.**

Write each expression as a single natural logarithm.

Example:

Example:

Example:

Example:

**APPLICATION:** The formula for a rocket’s maximum velocity *V* (in km/sec)

 Find *V*

**Solving a Natural Logarithmic Equation**

Solve:

Solve:

Solve:

**Mental Math (using properties of logarithms)**

**Solving an Exponential Equation take the ln of each side of equation**

Solve: **remember:**

Solve:

Solve: