**Trig/Precalculus Review Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Trigonometric Identities**

**Reciprocal Identities:**

sin = cos

csc sec

tan cot

**Quotient Identities** **Pythagorean Identities**

tan

cot

**Sum and Difference Identities** **Double Angle Identities**

cos () = sin 2

sin () = cos 2

tan () =

tan 2

**Half-Angle Identities**

Sin =

Cos

Tan

**Exponential and Logarithmic Functions**

**Properties of Exponents:**

|  |  |  |
| --- | --- | --- |
| **Property** | **Definition** | **Example** |
| Product |  |  |
| Power of a Power |  |  |
| Power of a Quotient |  |  |
| Power of a Product |  |  |
| Quotient |  |  |

**Properties of Logarithms:**

|  |  |  |
| --- | --- | --- |
| **Property** | **Definition** | **Example** |
| Product |  |  |
| Quotient |  |  |
| Power |  |  |
| Equality |  |  |

**Change of Base Formula:**

**Natural Logarithms:**

**Factoring**

**Factoring Trinomials:**

**Factoring Perfect Square Trinomials:**

**Factoring Differences of Squares:**

**Solving Equations by Factoring:**