Cheat Sheet

Questions

Logarithms

Given a logarithm in base a give an expression to convert it to base b?

## Powers

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

## Logarithms

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

## Terminology

|  |  |  |
| --- | --- | --- |
| Term | Example | Description |
| Expression |  |  |
| Term |  | A part of an expression. Note we highlighted the term 4x in the example |
| Coefficient |  | The numberical multiplier in a term |
| Equation |  | An equation requires an equals sign |
| Inequality |  |  |
| Formula |  |  |
| Function |  |  |
| Function Value |  |  |

## Symbols

|  |  |  |  |
| --- | --- | --- | --- |
| Symbol | Meaning | Example | Description |
|  | Set |  | The set consisting of the objects 1 and 2 |
|  | Such that |  | The set of all x such that |
|  | Existential qualifier (there exists) |  | There exists an integer x such that |
|  | Univeral qualifier (for all) |  | For all positive integers x, |

## Factorizing Polynomials

1. Extraction of common factors
2. Grouping

Four termed expressions can sometimes be factorized into two binomial expressions

1. Standard Factors of Quadratic Polynomials
2. Test for simple factors

A quadratic polynomial can be written as the product of two simple factor if is a perfect square

1. Solving quadratic equations with no simple factors