Math Conventions

focus on what might seem different

Operator precedence:

- :: \$ [] PEU: %x% (MD)(AS) and L-to-R priority if equal
- "1:5 * 2" ":" has precedence
- logic: ! (& &&) (| ||) xor
- (& is vectorized "AND";
 && is single-valued "AND")

Operators to note:

exponentiation: ^ (accepts **) modulus: %% (matrix: %x%) integer division: %/% define vector: c(...) test if element present: %in%

R input and response:

```
a <- c("alpha", "beta", "gamma")
c("gamma", "eta") %in% a
## [1] TRUE FALSE</pre>
```