Math Conventions

focus on what might seem different

Operator precedence:

- :: $ [ ] PEU: %x% (MD)(AS) and L-to-R associativity "1:5 * 2" : has precedence
- ! (& &&) (| ||) xor
- & vectorized; && single-valued, efficient

Operators to note:

exponentiation: ^ (accepts **)
modulus: %% (mention %x%)
integer division: %/%
define vector: c(...)
test if element present: %in%
equality test: '==', not '='

```
1:5 * 2 # 1:10 or 2,4,6...?
## [1]  2  4  6  8 10
```

```
T | F & F  # & has priority
## [1] TRUE
```

```
27 %% 6
## [1] 3
```

```
b <- 5.3 %/% 2.6; b
## [1] 2
is.integer(b); as.integer (b)
## [1] FALSE
## [1] 2
```

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