

R as a Calculator

Calculator-like operations

- Standard interactive R (type “R”)
- RStudio console provides some conveniences
- Can do some simple programming interactively – see below
- lines below starting `##` [1] are output from preceding line

```
sin(45*pi/180)  ## pi is a known variable
## [1] 0.7071068
exp(-1)         ## exponential
## [1] 0.3678794
pnorm(1)        ## cumulative normal PDF > 1 std dev
## [1] 0.8413447
## simple functions: the quadratic formula (one branch)
quadForm1 <- function(a, b, c)
  (-b+sqrt(b^2-4*a*c))/(2*a)
quadForm1 (1,4,4)  ##  $x^2+4x+4=0$ :  $a=1, b=4, c=4$ 
## [1] -2
```