In-class Assignment 1

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```r
sqrt(6)
```

```
## [1] 2.44949
```

```r
sqrt(66)
```

```
## [1] 8.124038
```

```r
sign(6)
```

```
## [1] 1
```

```r
sign(-6)
```

```
## [1] -1
```

```r
pi
```

```
## [1] 3.141593
```

```r
pi^2
```

```
## [1] 9.869604
```

```r
ceiling(3/2)
```

```
## [1] 2
```

```r
floor(3/4)
```

```
## [1] 0
```

```r
log2(100)
```

```
## [1] 6.643856
```

```r
log10(100)
```

```
## [1] 2
```

```r
log(2)
```

```
## [1] 0.6931472
```

```r
log(exp(2))
```

```
## [1] 2
```

```r
log(pi)
```

```
## [1] 1.14473
```

```r
sin(pi)
```

```
## [1] 1.224606e-16
```

```r
cos(pi)
```

```
## [1] -1
```

```r
X<-3
Y<-9
X*Y
```

```
## [1] 27
```

```r
X/Y
```

```
## [1] 0.3333333
```

```r
x<-c(1:10)
y<-c(3:12)
x*y
```

```
##  [1]   3   8  15  24  35  48  63  80  99 120
```

```r
x/y
```

```
##  [1] 0.3333333 0.5000000 0.6000000 0.6666667 0.7142857 0.7500000 0.7777778
##  [8] 0.8000000 0.8181818 0.8333333
```

```r
1e-3
```

```
## [1] 0.001
```

```r
1e3
```

```
## [1] 1000
```

```r
2.5e-3
```

```
## [1] 0.0025
```

```r
2.5e3
```

```
## [1] 2500
```