

Probability Calculation (Lab-8 / Part-2)

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Probability Calculation using R

dnorm

```
dnorm(0, mean = 0, sd = 1)
```

```
## [1] 0.3989423
```

```
x = c(0, 1, 2)
dnorm(x, mean = 0, sd=1)
```

```
## [1] 0.39894228 0.24197072 0.05399097
```

```
x = c(0,1,2)
dnorm(x)
```

```
## [1] 0.39894228 0.24197072 0.05399097
```

pnorm

```
pnorm(1, mean = 0, sd=1)
```

```
## [1] 0.8413447
```

```
pnorm(1, mean = 0, sd=1, lower.tail = FALSE)
```

```
## [1] 0.1586553
```

```
1-pnorm(1, mean = 0, sd=1)
```

```
## [1] 0.1586553
```

dbinom

```
dbinom(10, size = 12, prob = 0.6)
```

```
## [1] 0.06385228
```

pbinom

```
pbinom(4, size = 12, prob=0.6)
```

```
## [1] 0.05730992
```

```
pbinom(4, size = 12, prob = 0.6, lower.tail = FALSE)
```

```
## [1] 0.9426901
```

dpois

```
dpois(14, lambda = 10)
```

```
## [1] 0.0520771
```

ppois

```
ppois(16, lambda = 10)
```

```
## [1] 0.9729584
```

```
ppois(16, lambda = 10, lower.tail = FALSE)
```

```
## [1] 0.02704161
```