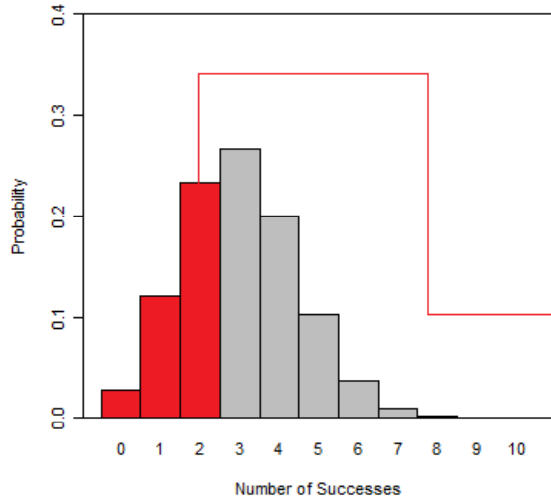
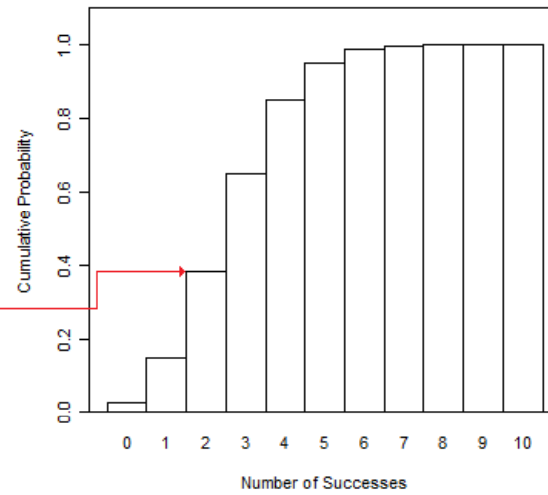


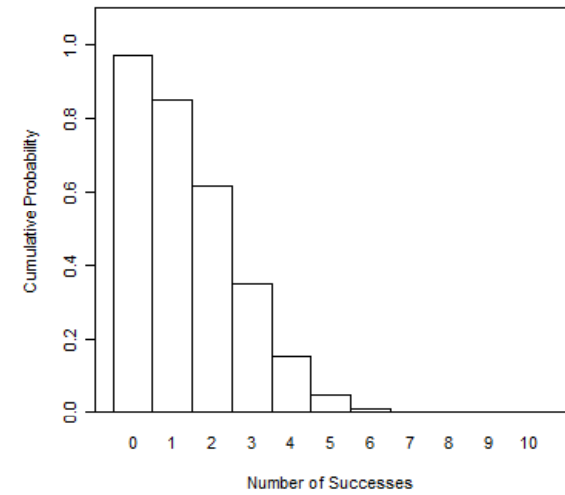
PDF: Binomial with $n=10$ and $p=0.3$



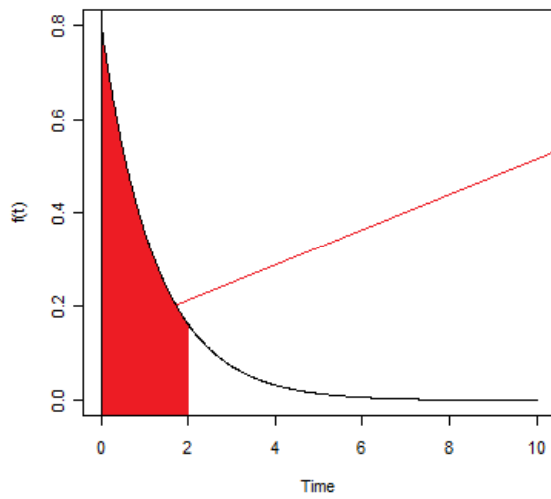
CDF: Binomial with $n=10$ and $p=0.3$



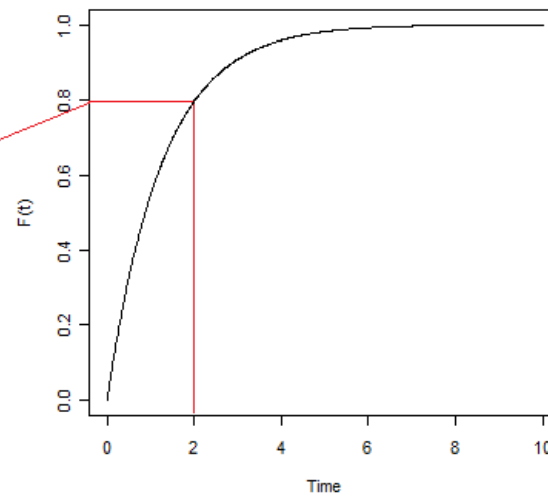
1-CDF: Binomial with $n=10$ and $p=0.3$



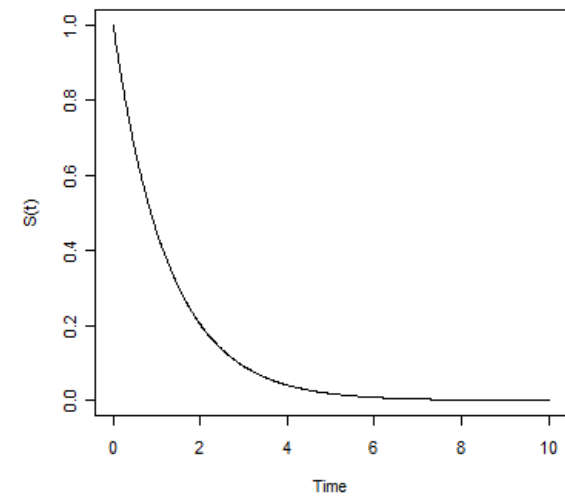
PDF: Exponential with Rate=0.8



CDF: Exponential with Rate=0.8



1-CDF: Exponential with Rate=0.8



R Code: (FYI)

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```
par(mfrow=c(2,3))
#Discrete - Binomial

x <- 0:10
y <- dbinom(x, 10, 0.3)
barplot(y, names.arg=0:10,
        ylim=c(0,0.4), , space=0
        xlab="Number of Successes",
        ylab="Probability",
        main="PDF: Bin(n=10, p=0.3)")
box()

y2 <- pbinom(x, 10, 0.3)
barplot(y2, names.arg=0:10, space=0,
        ylim=c(0,1.1), col="white",
        xlab="Number of Successes",
        ylab="Cumulative Probability",
        main="CDF: Bin(n=10, p=0.3)")
box()

barplot(1-y2, names.arg=0:10,
        ylim=c(0,1.1), col="white",
        xlab="Number of Successes",
        ylab="1 - CDF", space=0,
        main="1-CDF: Bin(n=10, p=0.3)")
box()

# Continuous - Exponential

x <- seq(0,10, 0.01)
y <- dexp(x, rate=0.8)
plot(x, y, type="l", lty=1,
      xlab="Time", ylab="f(t)",
      main="PDF: Exponential(Rate=0.8)")
y2 <- pexp(x, rate=0.8)
plot(x, y2, type="l", lty=1,
      xlab="Time", ylab="F(t)",
      main="CDF: Exponential(Rate=0.8)")
plot(x, 1-y2, type="l", lty=1,
      xlab="Time", ylab="S(t)",
      main="1-CDF: Exponential(Rate=0.8)")

par(mfrow=c(1,1))
```