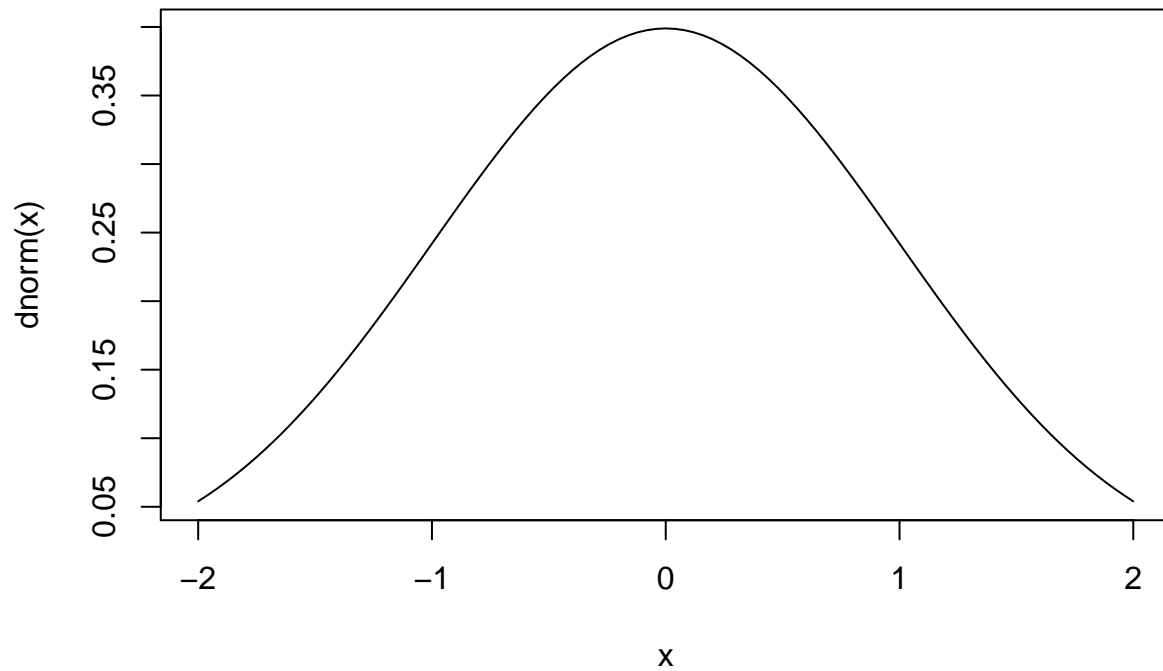
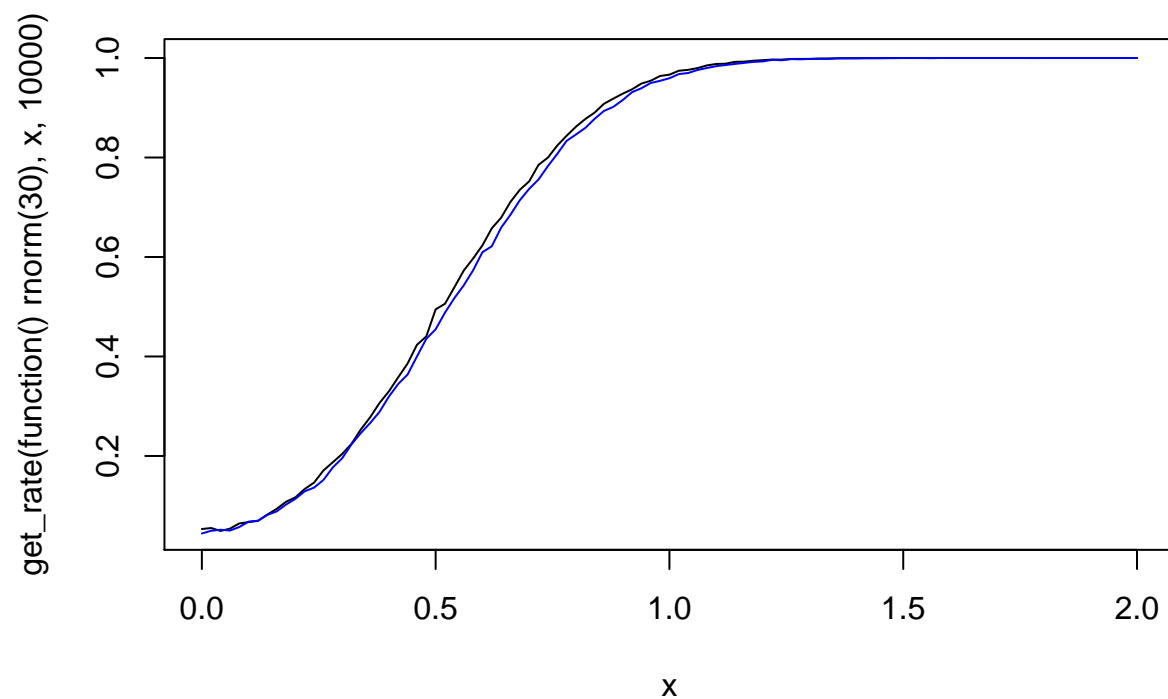


t.test vs wilcox.test

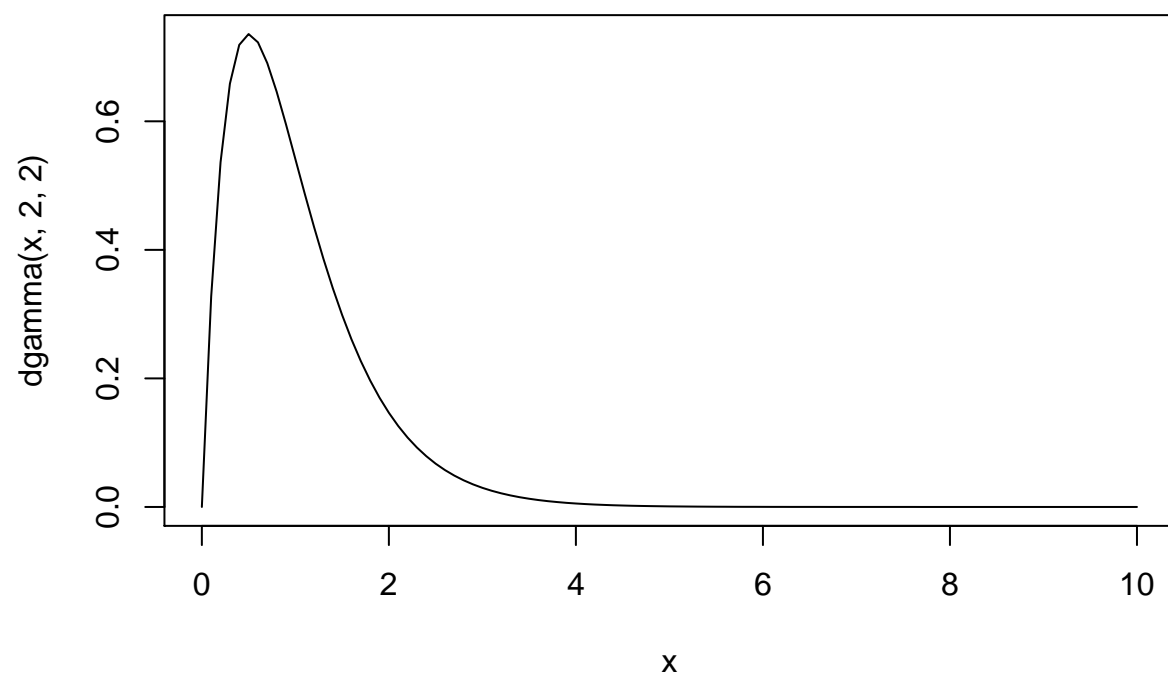
```
get_rate <- function(sampler,offset,n,test=t.test){  
  r <- c()  
  for(j in c(1:length(offset))){  
    m<-c()  
    for(i in c(1:n)){  
      x<-sampler()  
      y<-sampler()+offset[j]  
      m[i] <- test(x,y)$p.value < 0.05  
    }  
    r[j] <- mean(m)  
  }  
  r  
}  
curve(dnorm(x),-2,2)
```



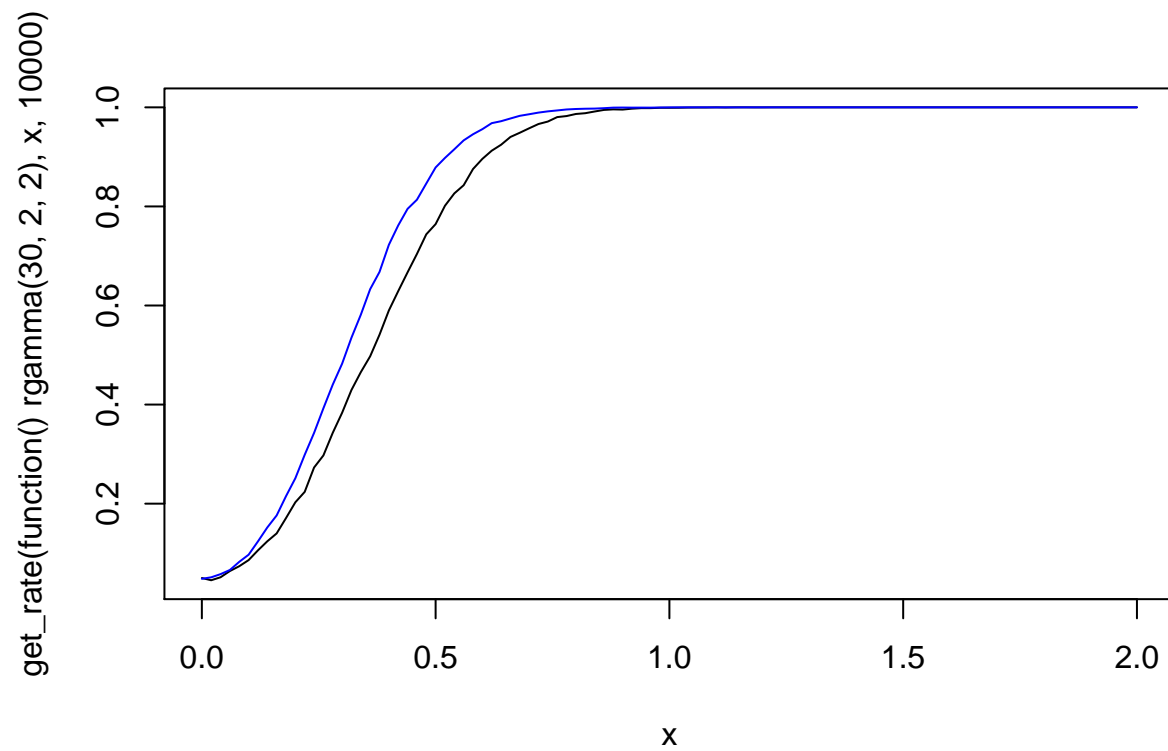
```
curve(get_rate(function() rnorm(30),x,10000),0,2)  
curve(get_rate(function() rnorm(30),x,10000,wilcox.test),0,2,add=T,col='blue')
```



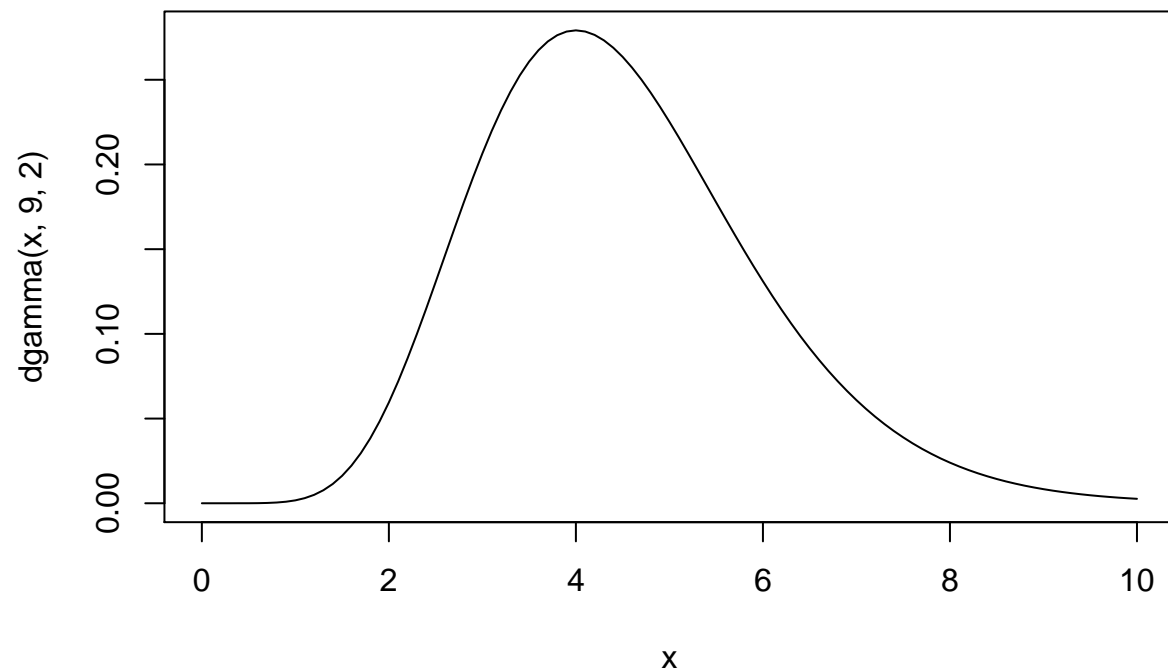
```
curve(dgamma(x,2,2),0,10)
```



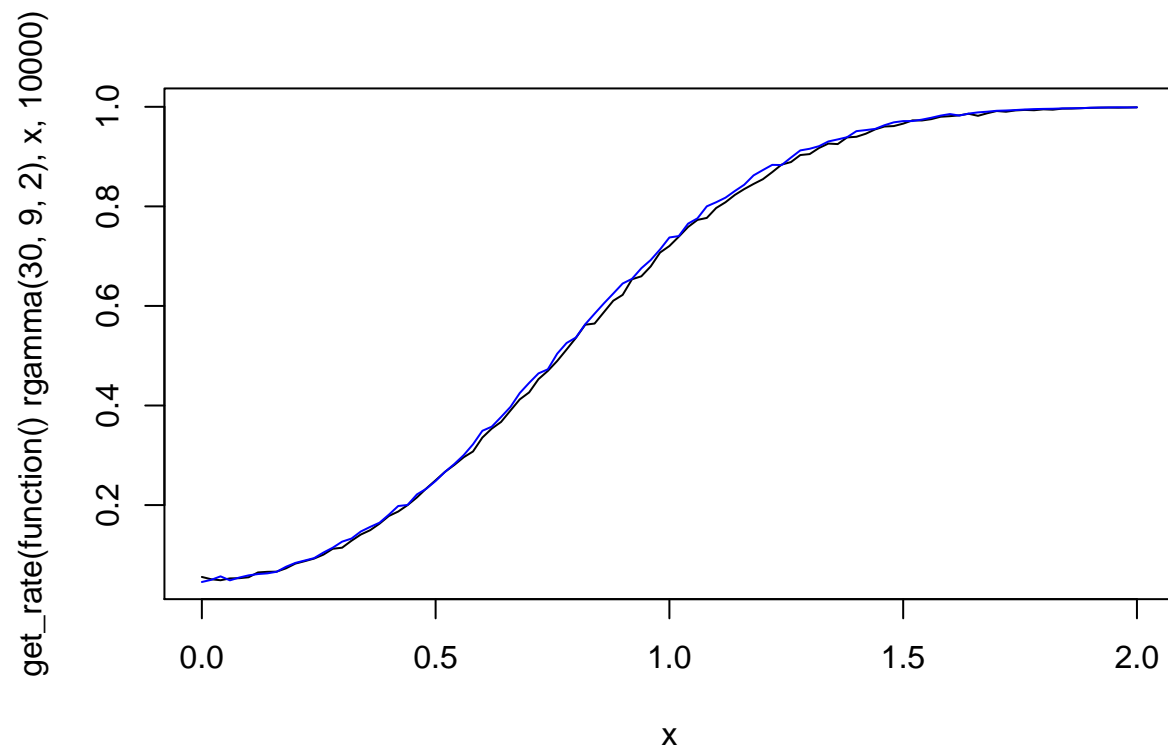
```
curve(get_rate(function() rgamma(30,2,2),x,10000),0,2)
curve(get_rate(function() rgamma(30,2,2),x,10000,wilcox.test),0,2,add=T,col='blue')
```



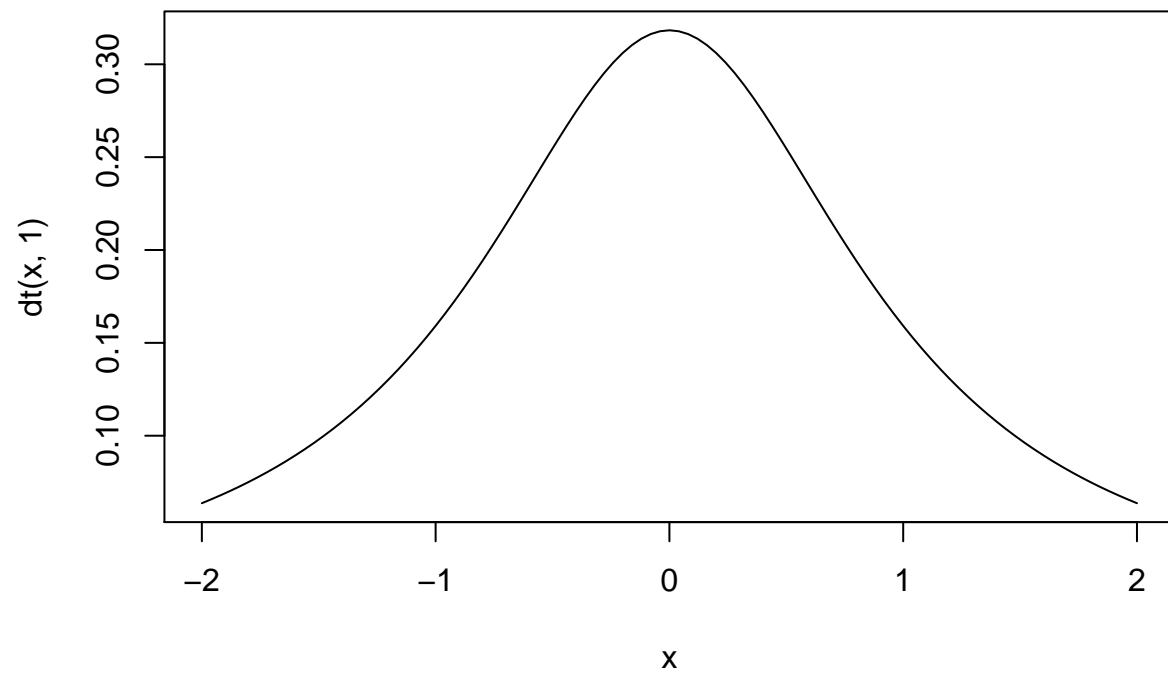
```
curve(dgamma(x,9,2),0,10)
```



```
curve(get_rate(function() rgamma(30,9,2),x,10000),0,2)
curve(get_rate(function() rgamma(30,9,2),x,10000,wilcox.test),0,2,add=T,col='blue')
```



```
curve(dt(x,1),-2,2)
```



```
curve(get_rate(function() rt(30,1),x,10000,wilcox.test),0,8,col='blue')
curve(get_rate(function() rt(30,1),x,10000),0,8,add=T)
```

