

Lampiran 1. Coding untuk Grafik Distribusi Gamma dengan 3 Parameter m_1 yang Berbeda, yaitu $m_{11} = 1, m_{12} = 3, m_{13} = 5$ dan $\gamma = 2$

```
m <- 100
n <- 100
m11 <- 1
m12 <- 3
m13 <- 5
gam <- 2
x <- array(0,c(n,1))
for (i in 1:n)
{
  x[i] <- i/10
}
F1 <- array(0,c(n,1))
F2 <- array(0,c(n,1))
F3 <- array(0,c(n,1))

for (i in 1:n)
{
  F1[i] <- (1/(gam^(m11))*gamma(m11))*(exp(-(x[i]/gam)))*(x[i]^(m11-1))
  F2[i] <- (1/(gam^(m12))*gamma(m12))*(exp(-(x[i]/gam)))*(x[i]^(m12-1))
  F3[i] <- (1/(gam^(m13))*gamma(m13))*(exp(-(x[i]/gam)))*(x[i]^(m13-1))
}

plot(x,F1,type="l",xlim=range(0,10),ylim=range(0,1),xlab="x",ylab="fungsi gamma",
col="green",lty=1)
lines(x, F2,col="red", lty=2)
lines(x, F3, col="blue", lty=3)
legend(7.7, 1, c("m11 = 1", "m12 = 3", "m13 = 5"), col = c("green", "red", "blue"),
text.col = "black", lty = c(1,2,3),
merge = TRUE, bg = "white")
```