Assignment\_2\_Q3\_Part\_2

2024-10-13

# Install and load metafor package  
library(metafor)

## Warning: package 'metafor' was built under R version 4.3.3

## Loading required package: Matrix

## Loading required package: metadat

## Warning: package 'metadat' was built under R version 4.3.3

## Loading required package: numDeriv

##   
## Loading the 'metafor' package (version 4.6-0). For an  
## introduction to the package please type: help(metafor)

# Example data: Ratios of variances and variances of the ratios  
ratio\_var <- c(0.74, 0.7, 1.09) # Example variance ratios from studies  
vi <- c((0.74-0.22)^2,(0.7-0.43)^2,(0.76-0.55)^2) # Variances of the ratios  
  
# Perform meta-analysis on variance ratios  
res <- rma(yi = log(ratio\_var), vi = vi, method = "REML")  
  
# View summary of the meta-analysis  
forest(res)

