Project 1 - Kelly Markor

Question 1 - 3 > View(Project1KAM) > View(Project1KAM) > load(“/cloud/project/setwd.RData”)

Question 4 > question4a <- 2^(1:50) > question4b <- (1:50)^2 > question4c <- 5 > question4d <- c(3, 11, 8, 15, 12)

Question 5

question 5a <-x question5a <- x question5b <- x[c(2, 4)] question5c <- x[-2: -3] question5d <- x[x %% x > 10]

Question 6

question6 <- x RSiteSearch(“{spectral decomposition of a matrix}”) A search query has been submitted to <http://search.r-project.org> The results page should open in your browser shortly question6 <- “<http://search.r-project.org/cgi-bin/namazu.cgi?query=%7Bspectral%2Bdecomposition%2Bof%2Ba%2Bmatrix%7D&max=20&result=normal&sort=score&idxname=functions&idxname=vignettes&idxname=views>”

Question 7 > question7 <- “ceiling takes a single numeric argument x and returns a numeric vector containing the smallest integers not less than the corresponding elements of x. + + floor takes a single numeric argument x and returns a numeric vector containing the largest integers not greater than the corresponding elements of x. + + trunc takes a single numeric argument x and returns a numeric vector containing the integers formed by truncating the values in x toward 0. + + round rounds the values in its first argument to the specified number of decimal places (default 0). See ‘Details’ about “round to even” when rounding off a 5." > library(readr) > orings\_2\_ <- read\_csv(“orings (2).csv”) Parsed with column specification: cols( X1 = col\_double(), Temperature = col\_double(), Erosion = col\_double(), Blowby = col\_double(), Total = col\_double() ) Warning message: Missing column names filled in: ‘X1’ [1]

Question 8 > View(orings\_2\_) orings\_2\_[1, 2, 4, 11, 13, 18] ggplot(orings, aes(x = Blowby, y = Temperature))