Question 1:

PROC POWER;

MULTREG

ALPHA = 0.05

POWER = 0.9

MODEL = FIXED

RSQUAREFULL = 0.692307692308

NFULLPREDICTORS = 1

NTESTPREDICTORS = 1

NTOTAL=.;

Question 3:

PROC POWER;

COXREG

ALPHA = 0.05

SIDES = 2

HAZARDRATIO = 4

STDDEV = 0.5

RSQUARE = 0.75

NTOTAL = 150

EVENTPROB = 0.2

POWER = .;

RUN;