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a) for class y=0 E[x1] = (1+1+2+3+3)/5 = 2 E[x2] = (1+1+2+2+3)/5 = 1.8 cov(x1,x2) = E[x1x2] - E[x1]E[x2] = (3+6+6+1+2)/5 - 3.6 = 0 for class y=1 E[x1] = (1+2+4+5+5)/5 = 3.4 E[x2] = (4+5+6+6+7)/5 = 5.6 cov(x1,x2) = E[x1x2] - E[x1]E[x2] = (30+24+20+10+7)/5 - 19.04 = 18.2-19.04 = -0.84
b) xT = (3.5,2) sigma = covariance matrix mu = vector of expected values
c)
d)
e)