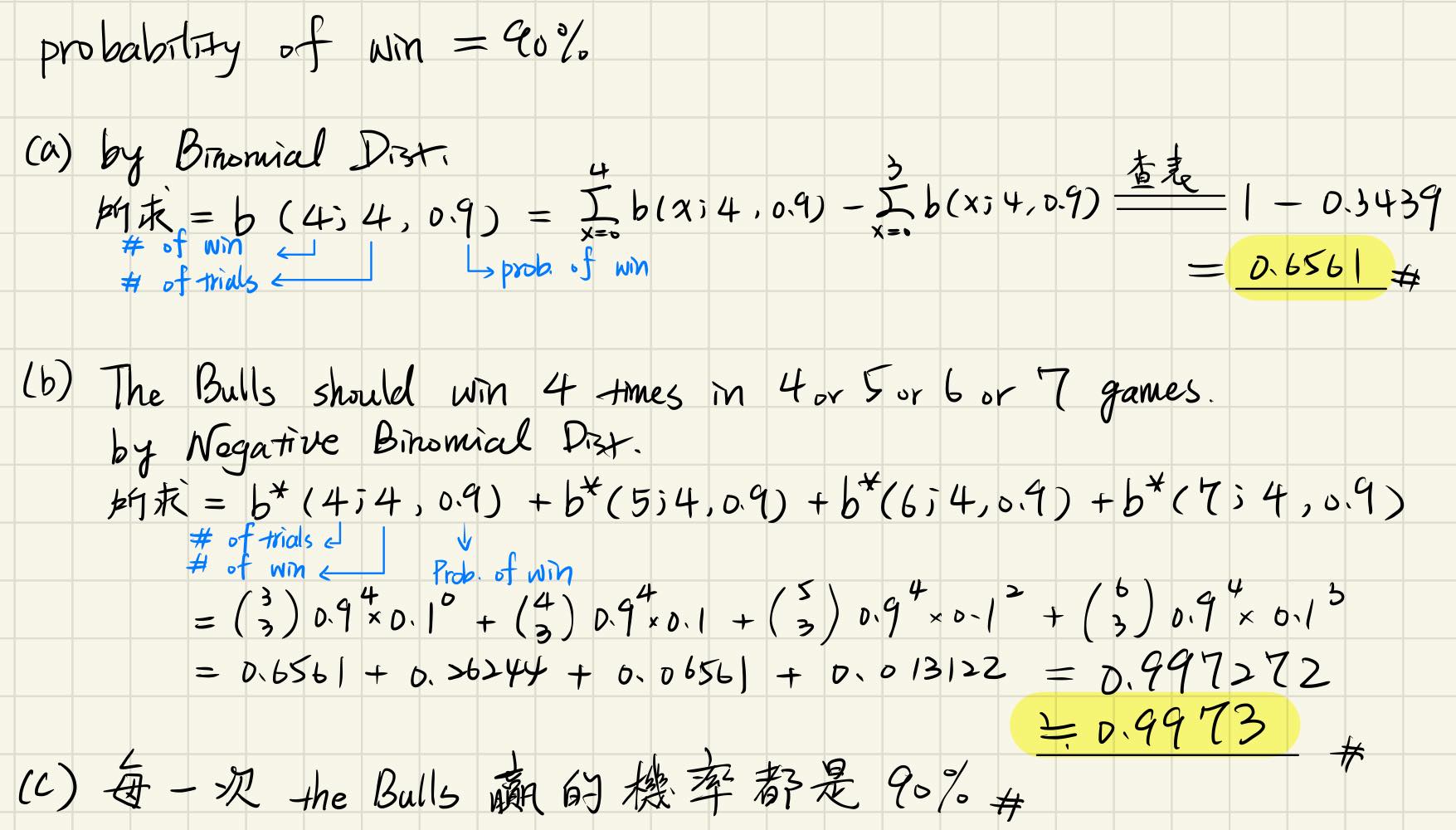
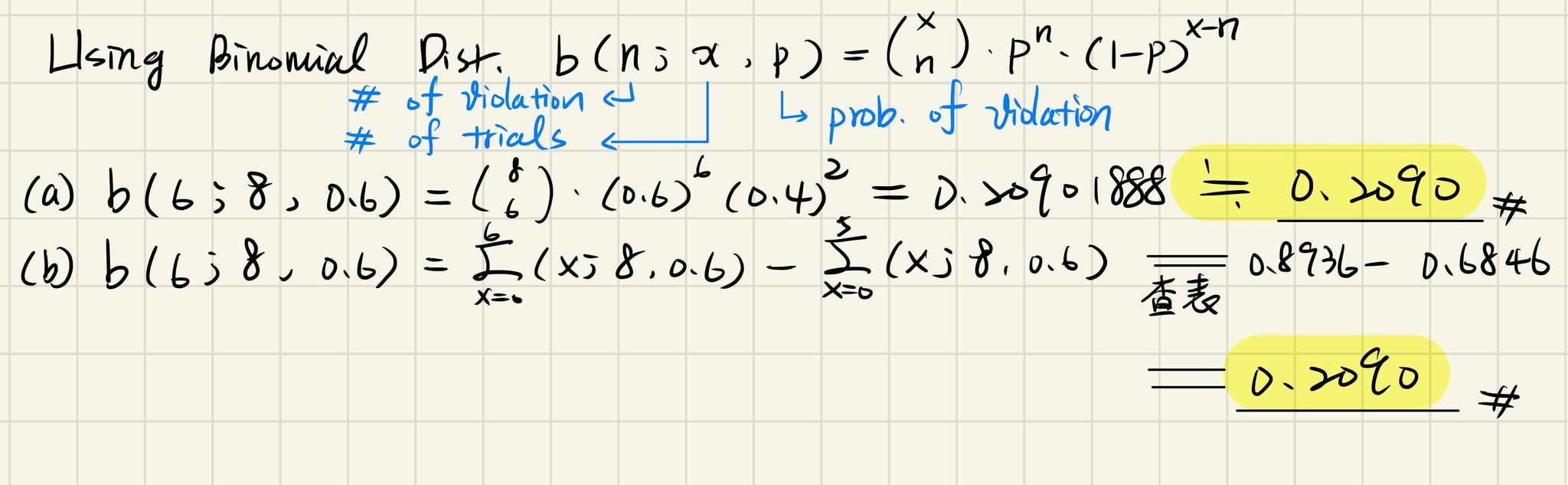
機**率與**統計HW1 資訊乙114 何寬羿 C34104032

Textbook Exercise

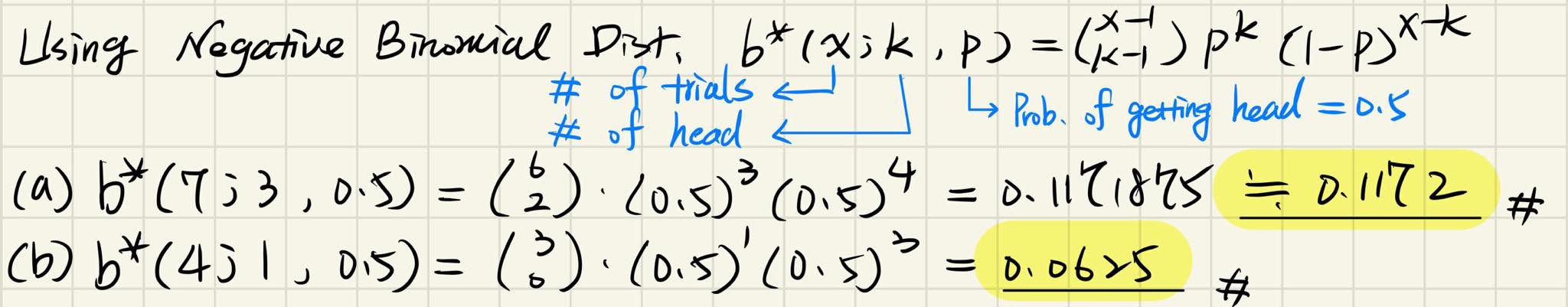
(5.14)



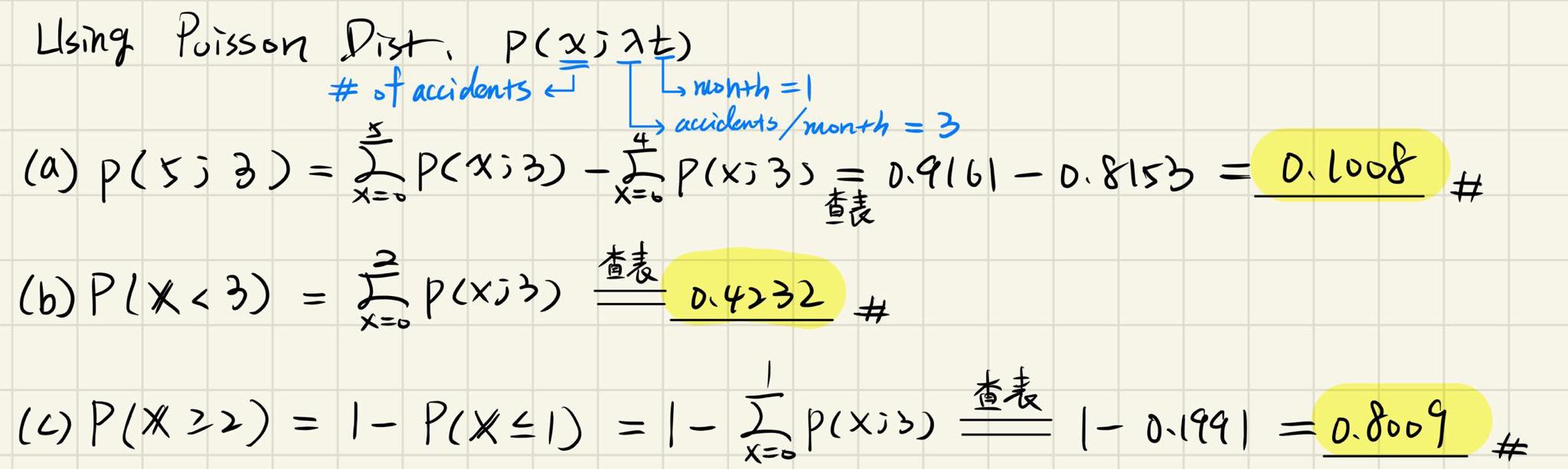
(5.26)



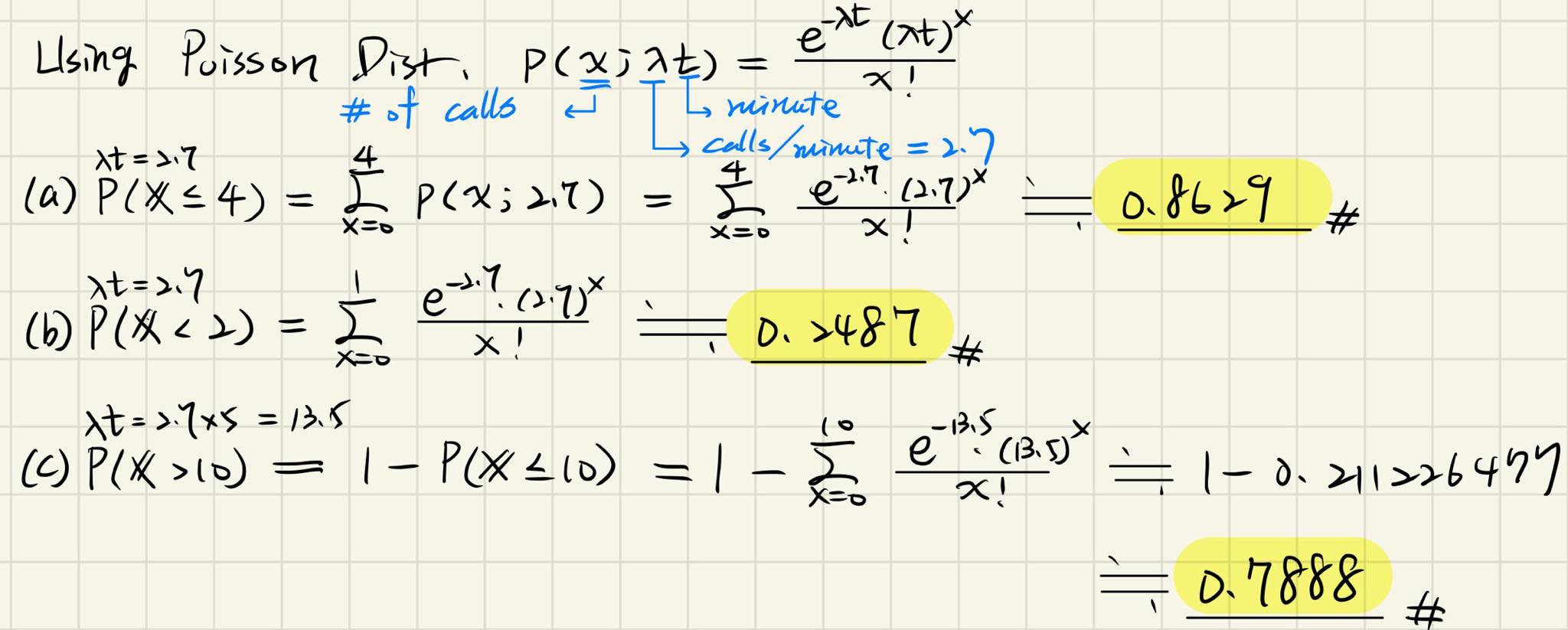
(5.50)



(5.56)



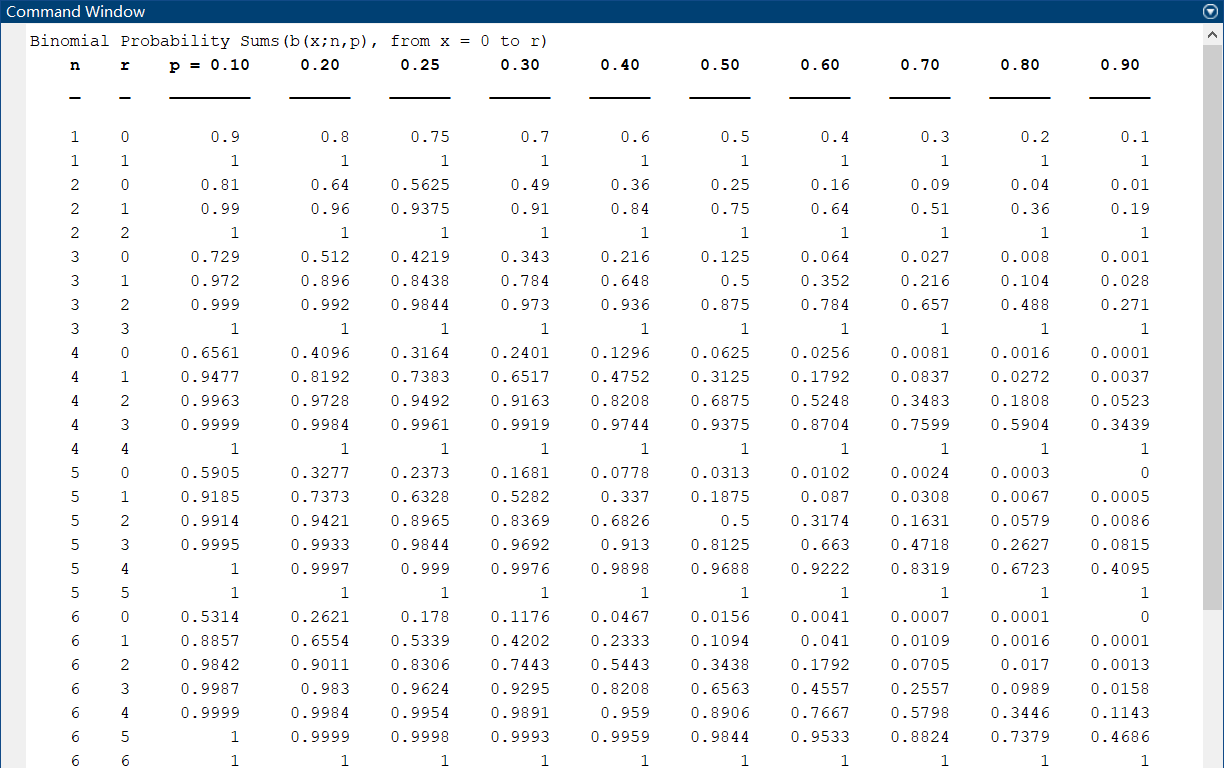
(5.80)

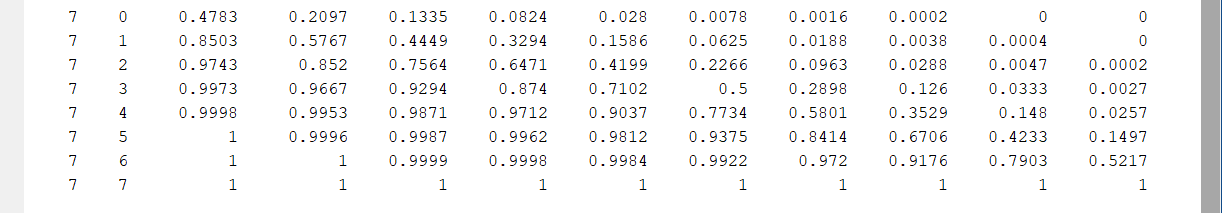


Matlab Exercise

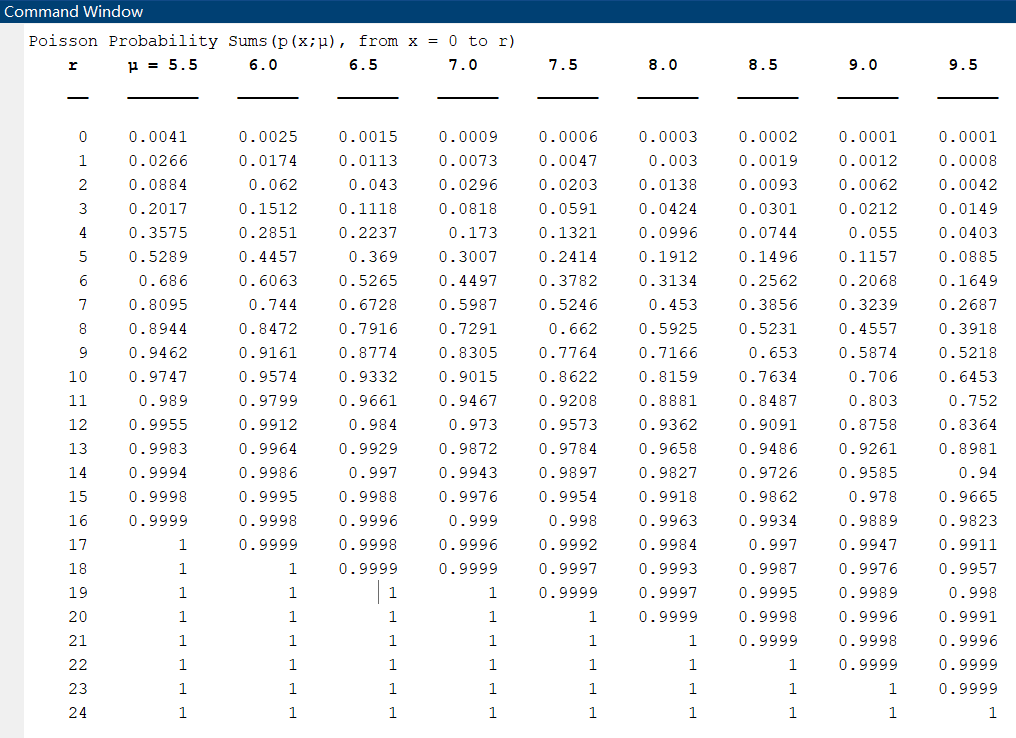
1.

(c)

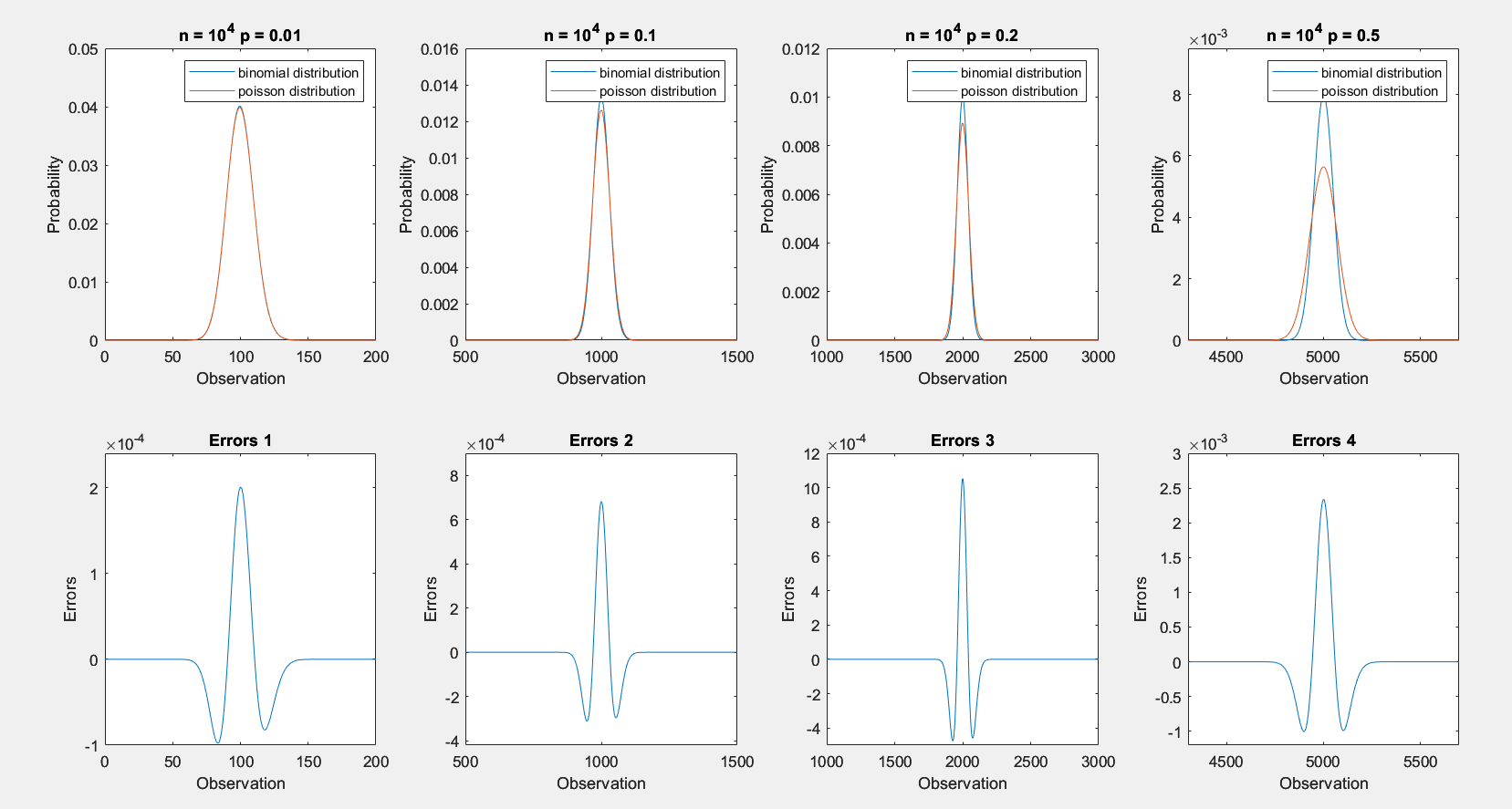




(d)



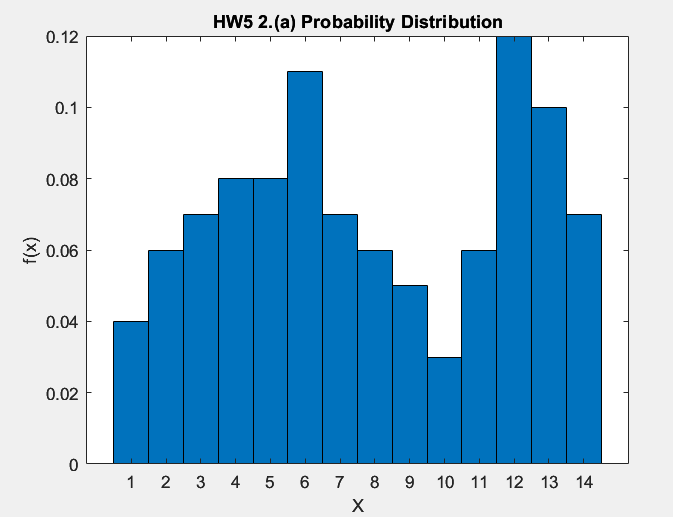
(e)



在n固定為10000的情況下，p的值越大，the errors from approximating Binomial dist. with Poisson dist. (誤差)會越大。這是因為，當Binomial Dist. 的n趨近無限大、p趨近於0時，較能符合Poisson Process，使得Binomial Dist. 會趨近於 Poisson Dist.(在此條件下，n\*p當作 Poisson Dist.的參數µ傳入，較接近實際上的Binomial Dist.)。

2.

(a)



(b)