Abdul Rafay Mohammed   **Assignment1**   **1001331625**

1) $\Theta(n)$

3) $\Theta(n^2)$

4)[[a*e+b*f],
   [c*e+d*f]]

5) a)f'(x)= 6x+5
   b)f'(5)=35
   c)f''(x)=6
   d)f''(5)=6

6)
 a)P(A and B)=P(A)*P(B)=0.18
 b)P(A or B)=P(A)+P(B)=0.9
 c)P(not(A))=0.7
 d)P(A | B) (i.e., the conditional probability of A given B)=P(A)=0.3