1) .

- a. P(M|T<80) = [P(T<80|M) * P(M)]/P(T<80) = [P(T<80|M)*P(M)]/[P(M)P(T<80|M)+P(S)P(T<80|S)] = 0.2963
- b. P(T) = P(M|T<80) + P(S|T<80) = 0.30741
- c. P(T<80) = P(M)*P(T<80|M) + P(S)*P(T<80|S) = 0.1350.135^3 = 0.00246
- 2) 1 P(A) P(B) = 0.1

Therefore P is possibly a probability function

3) P(x) = 0.3 $0 \le x \le 10$

the integral of P(x) = 0.3x from 0 to 10 which equals 3.0, therefore this is definitely not a valid probability density function

4)

ID= 484, predicted= 1, probability= 0.4400, true= 1, accuracy= 1.00 classification accuracy=0.4483
PS C:\Users\micha> ■