Section 2: cont'à

Monday, March 20, 2017 1:02 PM

handoult 48
h) 7-digit pessword, digits from 0 to 9
productivity that a pessword storts
with 27 or ends with 1
And 6

$$P(A \ cr \ 6) = P(A) + P(6) - P(A6)$$

let A = storts with 29
B = ends with 1
 $P(A) = \frac{1 \cdot 1 \cdot 10^5}{10^7} = \frac{1}{100} = 0.01 = 1.2$
 $P(B) = \frac{10^6 \cdot 1}{10^7} = \frac{1}{10} = 0.01 = 0.12$
 $P(AB) = \frac{1 \cdot 1 \cdot 10^4 \cdot 1}{10^7} = \frac{1}{100} = 0.001 = 0.12$
 $P(A \ CB) = P(A) + P(B) - P(both)$
 $= 0.01 + 0.1 - 0.001 = 0.109$