$$P(3/A) = ?$$

$$=\frac{P(ANB)}{P(B)}=$$

$$P\left(\frac{A|B}{P(B)}\right) =$$

 $P(A|B^c) = \frac{1}{m}$

P(B) = P

Olds of an event

$$\frac{1}{P(A')} = \frac{1}{1-P}$$

= <u>Event occur</u> event not occur (how more likely it is to have event A than not having it)

$$5n: if P(A) = 2/3$$
 $5n: odds = 1$

$$000/=600/.$$

C = convinced of Suitet

A = he having that characteristic

To find:
$$P(C|A) = P(A|C) = 1$$

$$P(A|C) = 0.6$$

$$P(A|C) = 0.2$$

$$P(A|C) = 0.2$$

- 0.882

P(A(Cc)P(Cc)

Shen coin A is flipped, coins heads with p = 1/4 When coin B is flipped, 1 11 11 p = 3/4Coin is randomly charm & flipped. Given that flip lands on Heads, prob that it is type A com? find the odds of type A com Sol: Griun:

P(H/A) = 1

H: texpe A coin
H: heads $P(H|A^c) = \frac{3}{4}$ $P(A) = \frac{2}{3}$, $P(A^c) = \frac{1}{3}$

To find: P(A/H) = 2 Odb = 2/3

dans of total probability.

$$P(E) = \sum_{i=1}^{2} P(F_i) P(F_i)$$

$$P(E) = P(E|F_i) P(F_i)$$

$$P(E) = P(E|F_i) P(F_i) + P(E|F_i) P(F_2)$$

E= DEFi == SFFi == FFi (Fi age mulually exclusive).

$$E = \sum_{i=1}^{n} EF_{i}$$

$$P(E) = \sum_{i=1}^{n} P(EF_{i})$$

$$P(A|B) = P(AB)$$

$$P(B) = P(AB)$$

$$P(B) = P(A|B)$$

$$P(B) = P(A|B)$$

$$P(B) = P(A|B)$$

$$P(B) = P(A|B)$$

$$P(B) = P(A|B)$$