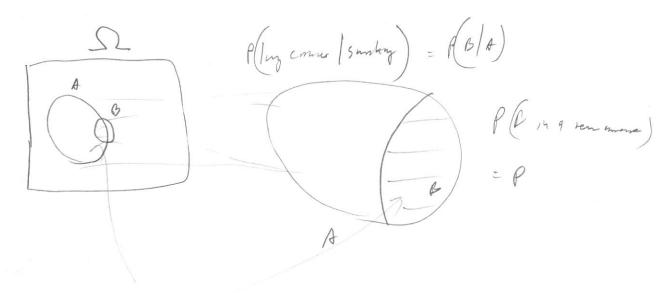
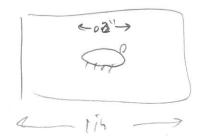


$$P(A) = \frac{200}{1000} = 0.2$$

$$R(A,B) = \frac{36}{1000} = 0.036$$

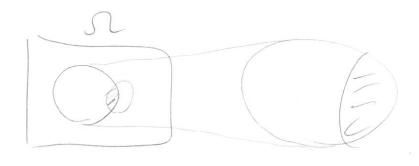


Shope is the some: P(BDA) for her its biggs



the boy is time as big sinou the sope size is helf ZOON = provisinge size face took slap size

Jenise ...



$$=$$
  $P(B|A) = P(B|A) \cdot \frac{1}{P(B)} = \frac{P(B,A)}{P(A)}$ 

(1763) Boyes Rule AKA def of coul. prob.

$$P(A|B) = P(A,B)$$
  $\Rightarrow$   $P(A,B) = P(A|B) P(B)$ 

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

Poshle Byrs Rele " ROJA) & PAIB)

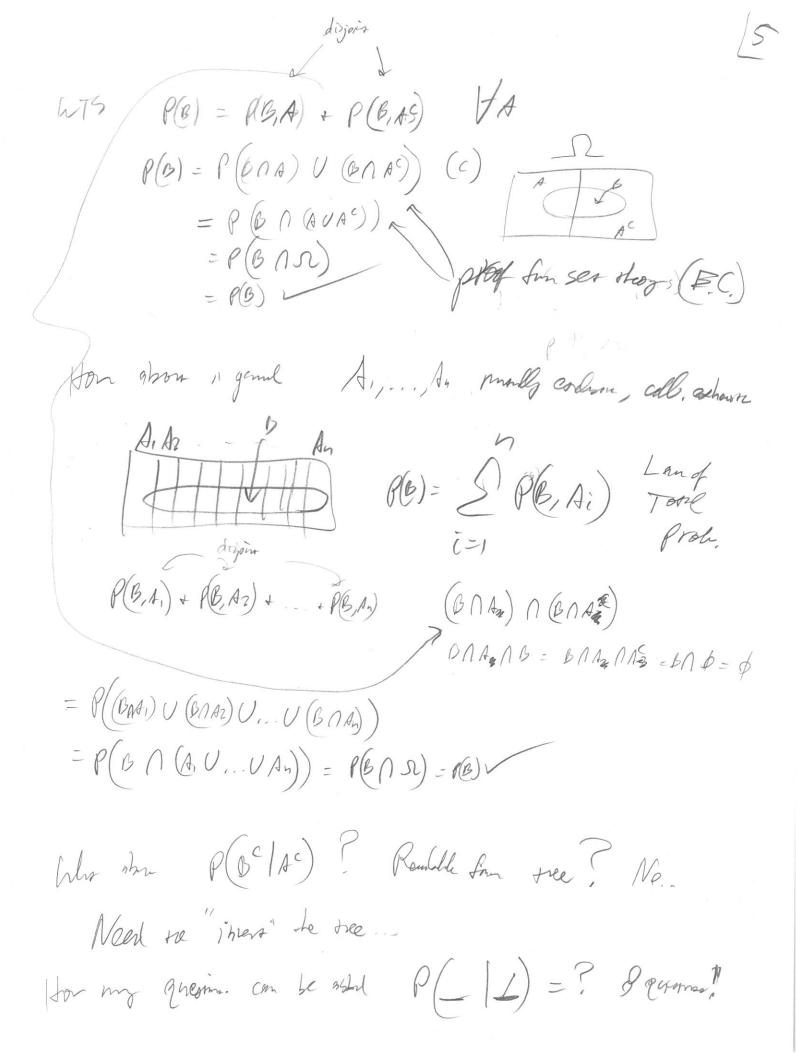
$$\beta(\beta|A) = \frac{.036}{.2} = .18 \approx 20\%$$
. If you shoke, there we bad odds!

Low? High?

P

$$B(1,c,|dix|m smke) = B(3/a^c) = \frac{P(a^c,b)}{P(a^c)} = \frac{.024}{1-0.2} = .03$$

$$\frac{AB|A}{BB|A^{c}} = \frac{10}{03} = 6 \text{ When ?}$$



6

.036 .16\$ ,02\$ ,776 P(nol.c. | no sube) 21 Poelle Byer Rok \*\*\*\* P(B|Az) P(Az) - P(B/AZ) P(AZ) = P(B/Az) PAz) \$ P(BIAi) P(Ai) S P(B,A:) Boyes Thm 1) Onl. Prob. is syr weit! 2 Kids and one is 9 gold. lest sy I km you hie Ploster is a god? Klee-jerk kentmi, t P(66) one give) = \$\left( \frac{266}{663} \right) \frac{266}{663} \right) \frac{1}{866} \left( \frac{166}{663} \right) \frac{166}{1663} \right) \frac{1}{1663} \