

$$P(T) = P$$

$$P(C) = 1 - P = q$$

$$(T, T) = p^2$$

$$\rightarrow (T, C) = pq$$

$$\rightarrow (C, T) = qp$$

$$(C, C) = q^2$$

Sim

Chinemo "Teste"

|| lenco

(T, C)

Chinemo "Cnoce"

|| longo

(C, T)

$$P(T, T) = p^2$$

$$P(C, C) = q^2$$

$$(p^2 + q^2)^n \rightarrow 0$$

$$p, q < 1$$

2<sup>a</sup> soluzione

2 serie di lenti, ma per ora alle prime "cose"

Chiamo T aste se le prime seg. a <sup>strett.</sup> lt lunghe delle  
secondo

Chiamo C le seconde e strettamente + lungo  
dalla prima

Se = riporto prove

Formula di Bayes  $B_1, B_2, \dots, B_n$

$$P(B_i | A) = \frac{P(A | B_i) \cdot P(B_i)}{\sum_{j=1}^n P(A | B_j) \cdot P(B_j)} = \frac{P(A | B_i) P(B_i)}{P(A)}$$

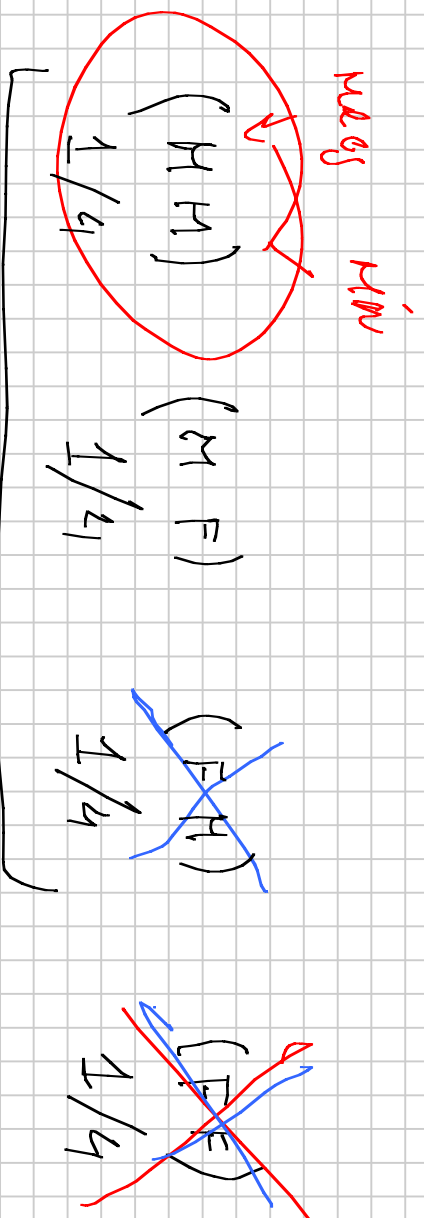
$$\begin{array}{r}
 1 \text{ mol} \\
 \hline
 1999 / 5 \text{ cm} \\
 \hline
 0,95 \text{ TH} \\
 \hline
 0,05 \text{ TS}
 \end{array}$$

$$\begin{array}{r}
 0,95 \\
 \hline
 0,95 + 999 \times 0,05 \\
 \hline
 50
 \end{array}
 \approx \frac{1}{50}$$

$$\begin{array}{r}
 999 \text{ sec} \\
 \hline
 999 \times 0,95 \text{ TS} \\
 \hline
 999 \times 0,05 \\
 \hline
 1 \text{ TH}
 \end{array}$$

$$\begin{aligned}
 B_1 &= \text{mole} \\
 A &= \text{TH}
 \end{aligned}$$

$$P(\text{meloto} | TH) = \frac{P(TH | \text{meloto}) \cdot P(\text{meloto})}{P(TH)}$$

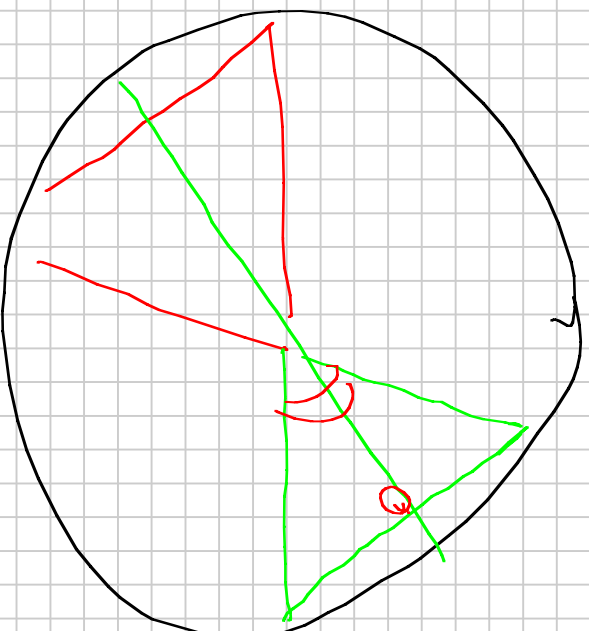


$$P(HH | H) = \frac{1}{3}$$

$$P(HH | H_{\text{max}}) = \frac{1}{2}$$

$$P(MH|M) = \frac{P(M|M) \cdot P(M)}{P(M)} = \frac{1}{3}$$

$$E[X] = \int_{\Omega} X dP(x)$$

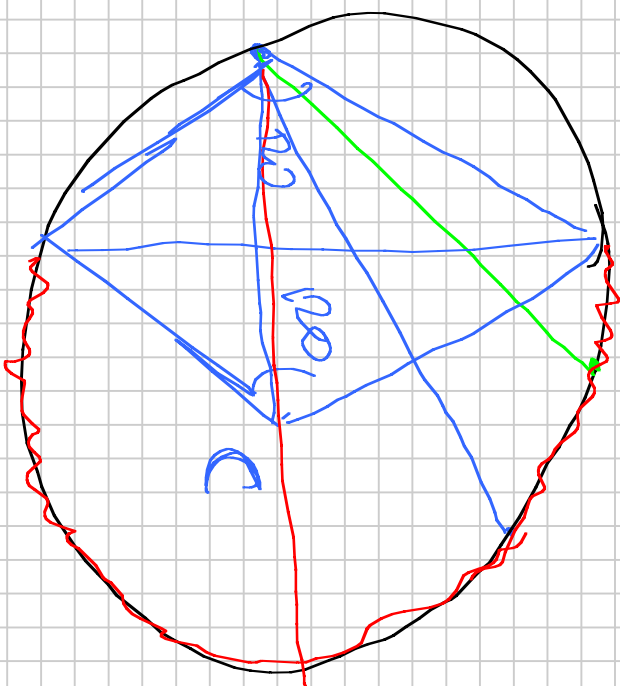


$$r=1$$

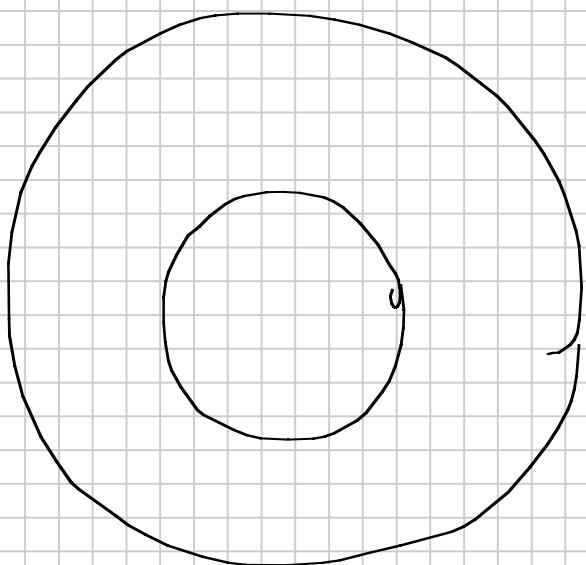
Tiriamo una  
corda casuale

$$P(\overline{AB} \geq 1) = ?$$

$$\frac{\frac{2\sqrt{3}}{2}}{2} = \frac{\sqrt{3}}{2}$$



$$\varphi(\overline{AB} \geq 1) = \frac{2}{\pi}$$



$$\frac{a}{b}$$

Iliv. eno n bedn

Vogheno che  $S > 22$

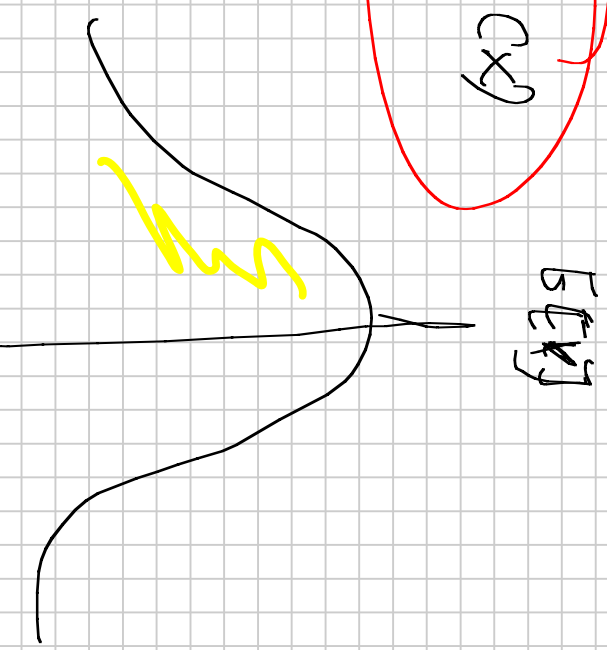
$$E[S] = ?$$

$$E[X] = 3, 5 = \frac{7}{2}$$

$$\sum x \cdot p(x)$$

$$E[X_1 + X_2 + \dots + X_n] = \sum_{i=1}^n E[X_i]$$

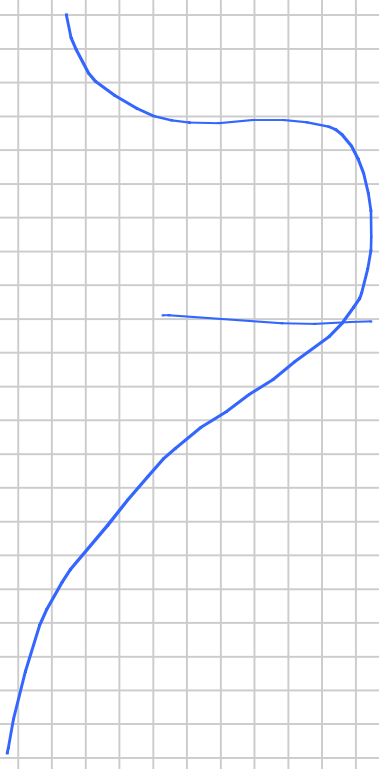
$$E[S] = 17, 5$$



$$E[S_T] = 2,4,5$$

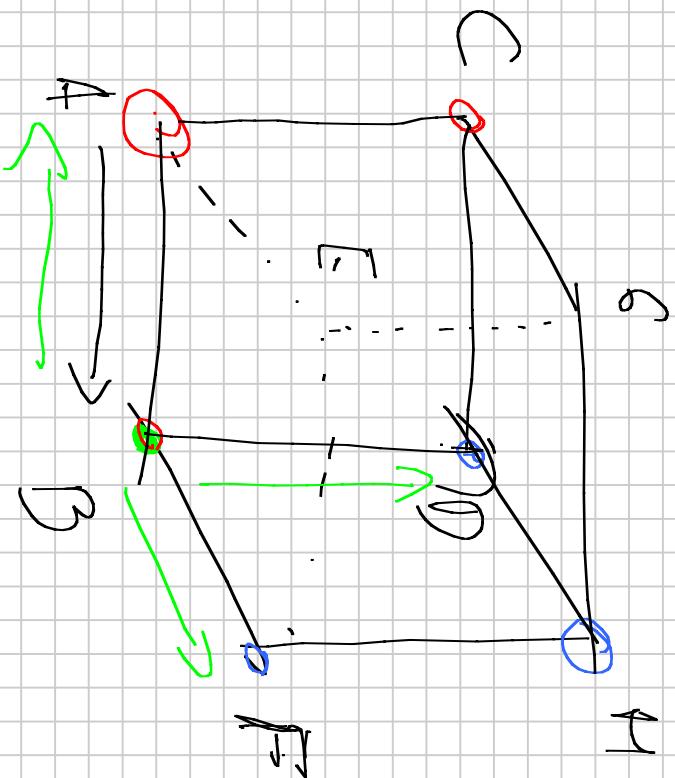
$$B(n, p) \approx P_{np} =$$

$$P(X) = \lambda e^{-\lambda n}$$



$$P(2)$$

$$P(2 | 1)$$



$P = \text{prova di ornare}$   
 ed H senza parlare  
 per A parlare di



