## SVOLGIHENTO TRACCIA 2) - 11/06/2020 N<sub>1</sub> = 20 (n° totale delle polline) N<sub>2</sub> = 30 (" in B) hol URNA A: 5R URNA B: 10 R N3=40 (" in c) URNAC: ZOR E : { si estree une polline rosso} A = { si sceplie l'une A 5 P(A) = P(B) = P(C) = 1 B={ 20 saglie l'ierne B} P(EIA)=5=1 C={ si sceplie l'urne c} P(E|B) = 10 = 1 . P(E|Q) = 20= P) [(A | E) = ? b) P((A U B) (E) = ? a) $P(E) \stackrel{\text{TOTOLE}}{=} P(E|A) P(A) + P(E|B)P(B) + P(E|C)P(C)$ -3+4+6=13-0.36 36 36

$$P\left(A \cup B \mid E\right) = \begin{pmatrix} \text{disgreath} \end{pmatrix} = P\left(A \mid E\right) + P\left(B \mid E\right) = \frac{3}{13} + \frac{4}{13} = \frac{2}{13} = 0.538$$

$$P^{2} = \frac{3}{13} + \frac{4}{13} = \frac{2}{13} = 0.538$$

$$P\left(X_{1} = 2, X_{2} = 4\right) = P\left(X_{1} = 2\right) P\left(X_{2} = 4\right) = \frac{3}{2} \cdot \frac{1}{2} \cdot \left(1 - \frac{1}{2}\right)^{\frac{1}{2}} = \frac{3}{2} \cdot \frac{1}{2} \cdot \left(1 - \frac{1}{2}\right)^{\frac{1}{2}} = \frac{3}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{15}{28} = \frac{15}{28} = 0.059$$

$$P\left(X_{1} + X_{2} = 7\right) = ? \qquad X_{1} + X_{2} \sim P\left(3 + 5, \frac{1}{2}\right)$$

$$P\left(X_{1} + X_{2} = 7\right) = ? \qquad X_{1} + X_{2} \sim P\left(8, \frac{1}{2}\right)$$

$$P\left(X_{1} + X_{2} = 7\right) = ? \qquad X_{1} + X_{2} \sim P\left(8, \frac{1}{2}\right)$$

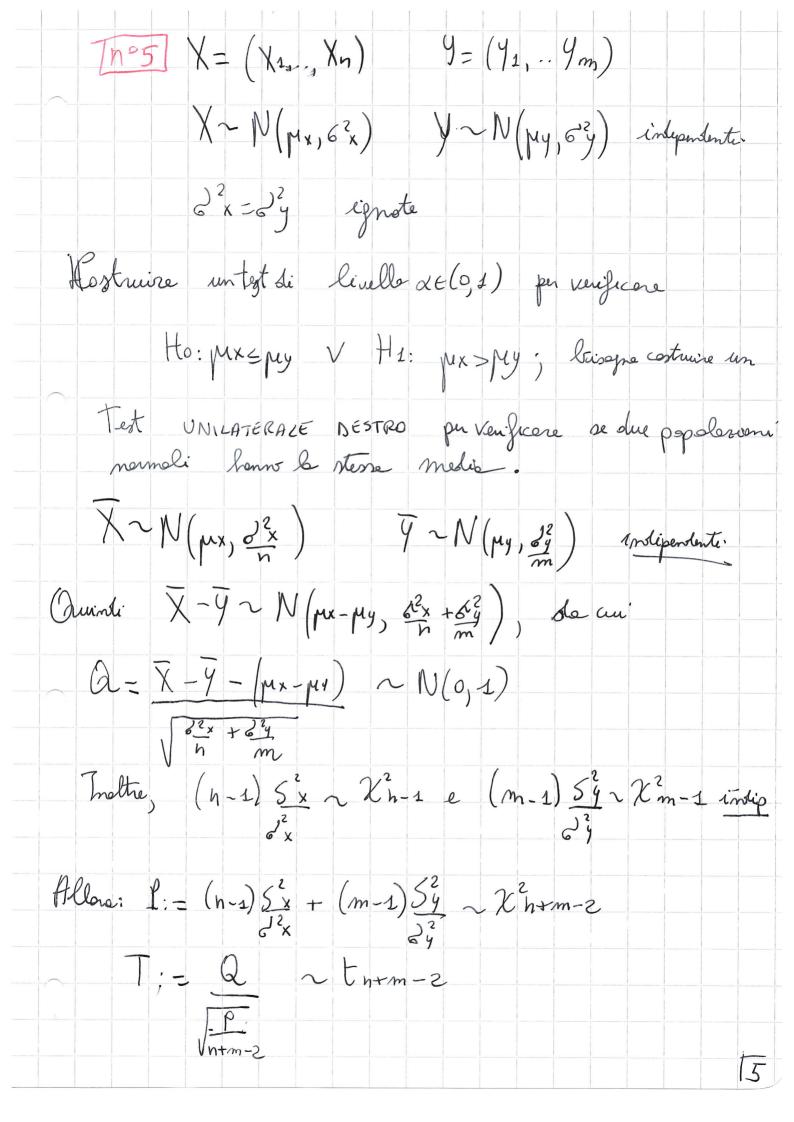
$$P\left(X_{1} + X_{2} = 7\right) = ? \qquad X_{1} + X_{2} \sim P\left(8, \frac{1}{2}\right)$$

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$$P\left(X_{1} + X_{2} = 7\right) = ? \qquad P\left(\frac{1}{2}\right)^{\frac{1}{2}} \left(\frac{1}{2}\right)^{\frac{3}{2}} = P \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{2}{2} \cdot \frac{1}{2} = \frac{1}{$$

[N°4] 
$$X \sim N(H, 3^e)$$
  $\mu_{1,8}^{2}$   $\mu_{1,8}^{2}$  conseques

 $Q(x) = X = \frac{1}{3} \sum_{i=1}^{2} X_i = \frac{1}{3} (21.50 + ... + 23.10) = 20.3$ 
 $Q(x) = X = \frac{1}{3} \sum_{i=1}^{2} (X_i - X)^2 = \frac{1}{3} [(21.50 - 20.3)^2 + ... + (23.10 - 20.3)^2 + ... + (2$ 



Quindi  $T = X - 9 - (\mu x - \mu y)$   $\begin{cases} n + m - 2 \\ (n-1) \frac{5^2 x}{5^2} + (m-1) \frac{5^2 y}{5^2} \end{cases}$ T2 tn+m-2 Se  $\partial^2 = \partial^2 x = \partial^2 y$ , pllore T=  $X - Y - (\mu x - \mu y)$  N + m - 2 1 + m - 2  $\sqrt{(n-1)}S^2y$   $\sqrt{(n-1)}S^2y$ d=P(Hoxinghintel Hovere) = P(To>c/mx-my=0)-= PHO (To > c)...

Possent al complementare:

1-d= P (To < c) = F (c) store F sterote sto Foll of:

To; Orienti Il quantile t 1-1, n+m-2 3' C= t1-2, n+m-2; Le regione prities (direjent shi Ho) e state de : To>t1-1, 5 Se To z t 1-1, n+m-2 si accette Ho Se To > t 1-2, n+m-2 si refinte Ho. 151