10 gloures our war to you no wan you pasgenqui re Ha 2 ouisopa A u B

a) /1= 11 δρού τορα 6 ού δορ A" ~ Bin (20, 1)

# #X1 = n. p = 20. 1 = 10

12 = 11 Spoù gboi en 6 egutt où dop ~ Bin 110, 12)

€×2 = n·p= 10· = 5

-8) Pl ration aven rober ga e 6 ou dop e nop vibopa cu)= = Avo te e ucha pasgengto co govano te ce nagte 6 الم من من م

- dpoù Heyenexu go nop Bu yonex

 $\times \sim Ge(\frac{1}{2})$   $\Rightarrow \notin X = \frac{1}{p} = \frac{1}{4} = \frac{3}{2}$ 

6) Plbara glova go ro saegto) = (1/2)10

opoù Hey chexu go nop bu yonex

 $X \sim Ge((\frac{1}{2})^{10})$   $\neq X = \frac{1}{p} = 2^{10} = 1024$ 

- Aro YA u XB co Sportin glorier & air doprine A & B

= 1 XA = XB U XA+XB=10 = \$\\ \pm \x\ A = \\\ 5

- 3. 5 Epzro no 1 gysna sa Breau ouisop - aко ина равенство се продълнава докато один очем, а др. не A + 75%. où dop B - 80%. où Sop
- a) Plapes risp bour 5 pyraga glavia ou sopo gar a ou dens same B egtu u conyu pyrago be )=?
  - да по промужам едновременно
    - \* X = 11 glours où sopa Brap Bain & egte u chyn pyttgo Be" P(X) = (75% 080% + 25% 020%)= = 0,7500,8 + 0,25.0,2 ) =
      - $= (0,0+0,05)^{5} = (0,65)^{5} = 0,116 \approx 11,6 \%$
  - 5) Planeg App buix 5 rbp ra ga una paben auto)=?

Tono Ge oui dop B ou rop Gunt 5 ropra. XN Bin (5, 80%).
Tono Ge oui dop A où rop Gunt 5 ropra: YN Bin (5,75%)

PIX=Y) = & PIX=Y=i) = & (5) (75/.080%) (25/.020%) 5-K

 $P(X=Y) = \left(\frac{5}{7}\right)^{2} \left(\frac{75}{100} \cdot 80\%\right)^{2} \left(\frac{25}{100} \cdot 20\%\right)^{2} + \left(\frac{5}{2}\right)^{2} \left(\frac{75}{100} \cdot 80\%\right)^{2} \left(\frac{25}{100} \cdot 20\%\right)^{3} +$ + (5) [75% -80%) (25%-20%) + (5) [75%-80%) (25%-20%) + + (6) (75%-80%) [25%-20%] =

 $=25.0,6.10,69^{4}+100.(0,6)^{2}.(0,6)^{3}+100.(0,6)^{3}.(0,05)^{2}+$ 

+ 25.10,6) , (0,05) + 1.10,6) , (0,05) =

= 0,000009375+0,0045+0,054+0,162+0,0776=

=0,2984 & 29,8/2

$$\frac{\text{tgy}_{3}m=10 \circ (1-P(x=Y))+P(x=Y)}{1-1+57.80i+251.20i}$$

$$\approx 10,85 / 7$$

Plox, XY, YA go Motte go ce cocino 64 1).

UsSupane X1 ~ U(0,1) Y~ U(0,1-x1)

Momen ga 20 novem y rais (1-+1)+2, co genio +2 ~ U(0,1)
U +1 4+2

Ucrome 
$$| \forall A + Y > A - YA - Y |$$
  $| \forall A + Y > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$   $| \forall A + (A - \forall A) + 2 > \frac{1}{2} |$ 

$$| \chi_{2} \rangle \frac{1 - 2 \chi_{1}}{2(1 - \chi_{1})}$$

$$| +2 \langle \frac{1}{2(1 - \chi_{1})} | + \chi_{2} \rangle = \frac{1}{2(1 - \chi_{1})}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2(1-x)}$$

$$\frac{1}{2(1-x)}$$

$$\frac{5 \ln x}{5 \pi} = \frac{1/2}{0} \frac{1}{2(1-x)} - \frac{1-2x}{2(1-x)} dx = \frac{1/2}{0} \frac{x}{1-x} dx = \frac{1}{0}$$