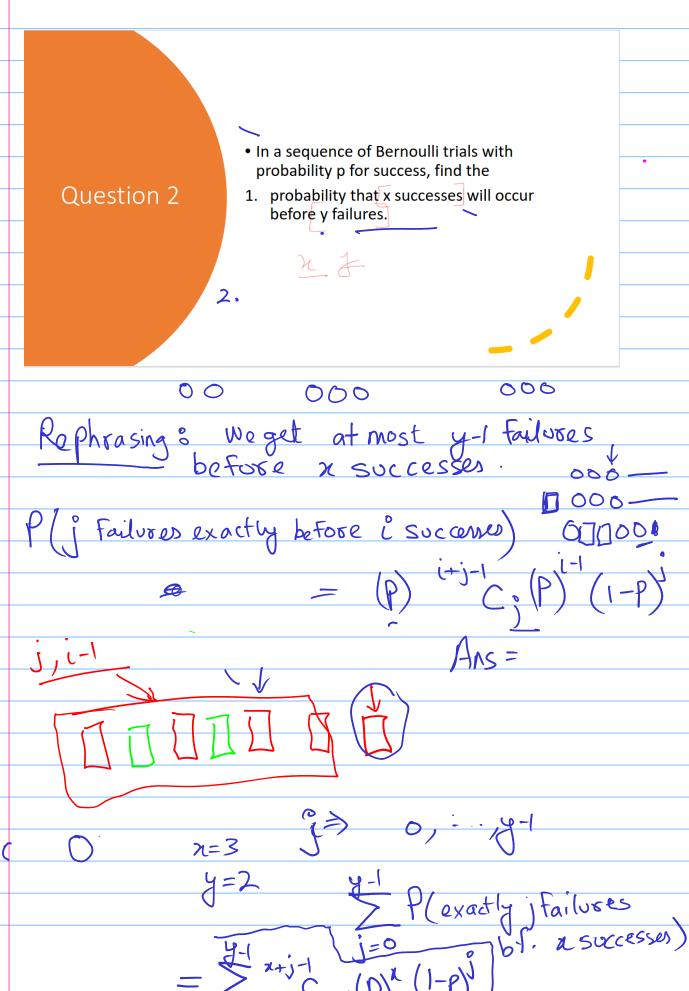
## Tutorial 5





- Colorblindness appears in 1 per cent of the people in a certain population.
- How large must a random sample (with replacements) be if the probability of its containing a colorblind person is to, be 0.95 or more?

P(a person is cb) = 0.01; P(not cp)=0.99

P (no color blind person in pop. of size x)
= (0.99)

X

P(atleast one Cb) = 1 - P(no...)=  $1 - (0.99)^n > 0.95$ 

 $\Rightarrow 1 - (0.99)^{1} > 0.95$   $(0.99)^{1} < 0.05$