- X~Binom (100,08), X: the number of perfect items 2) 0.8 \$ (0.2)4 - 0.00128
- 3) $\xi(x) = 80$, Var(x) = 16
- 4) You Binson (18,0.4) y: the partient recovers
- 5) F(x=5) = (15) (0.4) 5 (0.6) 10
- 6) E(X) = np = 15 = 0.4 = 6 VarCx) = npg = 15 \$ 0.4 \$ 0.6 = 3.6
- 7) Ka Bernoulli(1/2/4), x: surviving as noch $\mathcal{L}(x) = \left(\frac{3}{4}\right)^{x} \left(\frac{1}{4}\right)^{1-x}$
- S) X~Poisson(u) X: number of radioactive forficles passing throug a counter
- 9) $f(x) = P(x = 2) = \frac{e^{-4} + 4^2}{7}$
- (c) \(\x(x) = 4 \), \(\Var(x) = 4
- (V) c= 1
- 12) 1.25
- 13) c = 4
- 15) P(1<2<1.5) = 0.0919
- 16) PL-1<2 < 2) = 0.8186
- (7) P(2c-1.8) = 0.0668
- 18) X= 43.29
- 19) a = 1.53
- 20) q = -0.5 25
 - Because P (2 50,528) 30.2
- a = negative = P(z > -0.525) = 0.7
- because the we took average area 0.770.5 so it must be negabive 0.52 to 91
- average 0.38 +0.39

b= 0.385

- P(Z < 0.385) = P(Z < -0.385)