11 XN N (43, (45))

b- p(X=1) = .75

$$-0.67 = 1 - 43 = 7 = 43 - (0.67)(4.5)$$

$$4.5$$

o.
$$\rho(X=2) = P(2 \le 2-1-75)$$
 $\sqrt{1.6625}$

e.
$$\rho(1 \le x \le 3)$$
. $\rho(\frac{1-1.75}{\sqrt{1.6625}} \le 2 \le \frac{3-1.75}{\sqrt{1.6625}})$

```
d. p(1=x=3)= p(x=) + p(x=2) + p(x=3)
  P(x_7,3) = 0.1 \quad P(x \le -2) = 0.1
           P(-0.5 < x < 0.5) = ? P(-1 < x < 1) = ?
   0-1=p(x7/3)=1-p(x<3)=> p(x<3)=0.9=7=1.29
                          \rho(x<-2)=0.1=72=7-1-295
            \frac{-1.29 = -2 - M}{2} = \frac{-1.296}{2} = \frac{-2 - 3 + 1.296}{2}
                           -1.296 = -5 + 1.296
                              => 6 = 5 5 1-94
                                     2.58
                               => M= 3- (1.29) (1.94) 50-152
         PC-1-0.5 = 2 = 1-0.5 )
5) XN exp(10) => 1
    · For lo buciets => ) = 10 1 p (some contamination Lorented)
              = P ( X 7/164) 5 XN exp(10)
    . P ( deleved contamination of least 3 Times) 5 YN Bin (10, P (x7/10))
   P(X73) = 1-P(y=0)-P(y=1)-P(y=2)
```