```
let c is a constant:
                                              * v[cx]= E[(y-M,)]=
            # E[c] = c
                                                   Y E[y2]-My
               E[cx]= cmx
                                                       E[(cx)^2] - (E[cx])^2
c^2E[x^2] - c^2(E[x])^2
            * V[c] = 0
                                                       c2(E[x2] - M2)
                                                 V[cx] = c^2 \vee cxJ
            * V[x]=[[(x-w)2]=
                      [[x2-2xmx+12]=
                      E[x^2] - 2 M_E[x] + E[x^2]
               V[X] = E[X^2] - M_X^2
if we have two random variables × {V[x]=0, } Y={V[y]=0, }
                                               * Con(x,y)=[[(x-\(\pi\)(y-\(\pi\)]]
* E[x13 + [x]3 = [x+x]3 *
                                               * If x and y are
independent, Con(x,y)=0
* V[x+y] = E[2] - 2 = E[(x+y)] - (E[(x+y)])
           = [[(x^2 + 2xy + y^2)] - (m_x^2 + 2x_x + \frac{n_y^2}{2})
            =V[x]+V[y]+2(or(x,y)
```