8/0100 272 . 100 00100

$$\int_{z=x+y/2}^{z=x+y/2} \frac{\cos(z_{1}) \cdot E[z_{1}] \cdot E[z_{2}] \cdot E[T]}{E((x_{1}y)(ax+y/2) - E(x_{1}y) \cdot E(ax+y/2))} = \frac{E((x_{1}y)(ax+y/2) - E(x_{1}y) \cdot E(ax+y/2))}{E(ax+y/2)} = \frac{E(x^{2}) \cdot V_{1} \cdot V_{2}}{E(x^{2}) \cdot V_{2}} = \frac{E(x^{2}) \cdot V_{2}}{E(x^{$$

$$Z = \frac{x}{Y}$$

$$\int_{0}^{\infty} \int_{0}^{\infty} \frac{1}{x} \int_{0$$

$$\begin{cases} x & \text{if } (0,1) \\ Y & \text{if } (0,1) \end{cases} \\ Z & = \left(-Y \ln X\right)^{\frac{1}{2}} \cos \left(Y \ln Y\right) \end{cases}$$

$$W = \sqrt{-\left(\ln X\right)} \left(\frac{\ln X}{2}\right) \cdot \left(\frac{\ln X$$

$$\frac{\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} \cdot \frac{\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}\binom{2n}{2n}}{p(x,2n)} = \frac{\binom{2n}{2n}\binom$$

```
-) (1-PB+PAPB) E[B]= (1-PB) E[A] +PB+1
(1-PB + PAPB) E[B] = (1-PB) ELASTIC (1-PA) E[B] + PA+1
             (1-PA+PAPO) E[A] = (1-PA) PAPB2-PBPA+(
YAPB-A)2PB-AA32+PA2PB2
 =) { [A]. PAPB-PAPB+2
2 PAPB -PAPB+2-PAPB+PAPPA
  PAPB2 > PAPB => E[B]> E[A]
                               را ، بر عراه مد عراق دران مرائ ترود!
                                                             (w)
                    NaGeo (s)
T-Bi (N,P)
                   T. £ X1
   \begin{cases} M_{N} = 1/s & M_{X} = P \\ S_{N} = \frac{1-s}{s} & S_{X}^{2} = p(1-p) \end{cases}
 M_T(1). E(etT) = E(E(etT(N)) . E((pet=1)") . \( [pet=1] (1-5)"s=(-)
 s \sum_{n=1}^{\infty} (pe^{t}+q)^{n+1} (1-s)^{n} = s(pe^{t}+q) \sum_{n=1}^{\infty} ((pe^{t}+q)(1-8))^{n} = s(pe^{t}+q)
```

1- (pet,) (1-8)

 $\begin{array}{lll}
X = poi(3x) & Y = poi(7x) & = poi(7x) \\
P(X1 Y+Z-36-X) & PX,M(X,^{PZ-X}) & 36! & (3/5)^{3} (6/5)^{3} (6/5)^{3} (6/5)^{3} \\
P(X1 Y+Z-36-X) & PM(36-X) & xiylzl & (3/5)^{3} (6/5)^{3} (6/5)^{3} (6/5)^{3} (6/5)^{3} \\
P(X+Y+1) & X+Y+Z-36) & P(X+Y+Z-36) & P(X+Y+L)P(2-31-L) (-1) \\
& = \frac{15\lambda}{15} \frac{(5\lambda)^{36}}{15} &$

E[X+Y | X+Y + Z=36] = 36 x3/5 = 108/5

(-