





u) P17, ± y) =	Plex zy) z p	P1 > = log(y) = F (log(y)) = log(y)
p(y) = \frac{1}{y} 1 (	llie)	
$P(y) = \frac{1}{y^3}$		P1 x= j) = 1- F(j)
		Ey) = P ( ln x 2 - 2y )
V		= P (x > e-xy) =  - F(e-xy)
p1y) = 2e	-by 110,+10,	

```
4b. X vexp(2) X20 下为指数分布分布函数
 PIYEY) 对为国建约对元.
D y = 0
 P | Y = y | = P | X = y , X > 1) + P | - x = y , X = 1)
     = P(-X=y, X<1)
     = P(水山、メンガーy) カリマー ちり三十 RV = 0
      = P (Fy = x ~1)
      = F(1) - F1 Fy)
求导 ply) = (-Fl Fy))
② y>0
  P(Y=9) = P( >= y, >>1) + P(-x=y, ><1)
        = P (x =y, x >1) + P 1x < 1)
  鬼 y = | = ト(1) = F(1)
   リッ1 = P(1=メシリナP(X~1) = F(1)+ F1y)- F(1)
                                = F19)
   Ply) = (F1y))
```



