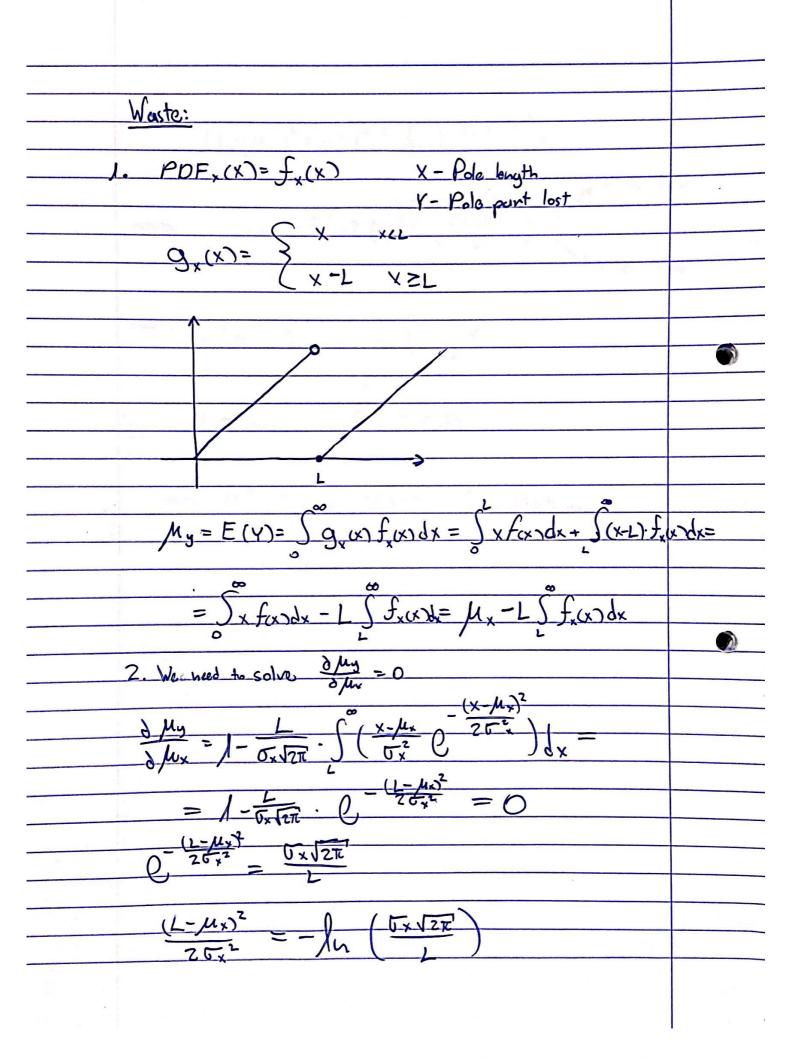
Breaking	
longest piece -> ZEXEY	
1. $CDF_{x}(X \le x) = \frac{x-2}{y-2} = \frac{1}{2}x-1$	
$2 POF_{x}(x) = \frac{1}{2}$	
+ ***	
3. E(x)= 5 2xdx = 5 2xdx = 4.16 -4.4= 3	
Stronium:	
1 Express h in terms of hi	
1. Express h in terms of λ : $(DF(x) = 1 - e^{-\lambda x} \times f(0, \infty)$	
= P(T>h)= 1-P(T <h)=1-cdf(h)=x-x+e-h=< td=""><td></td></h)=1-cdf(h)=x-x+e-h=<>	
$=e^{-\lambda h}$	
$= > -\lambda h = \ln(\frac{1}{2}) = > h = \frac{\ln(2)}{\lambda}$	4
$= \frac{1}{2} - \frac{1}{2} = $	
^	
2. find λ : $\lambda = \frac{\ln(2)}{78}$ (based on $h = \frac{\ln(2)}{\lambda}$)	
3. $P(T>50) = 1 - P(T \le 50) = 1 - CDF(50) = 1 - (1 - e^{-1})$ $= 0^{-1} = 0^{-1} = 0^{-1} = 0$ $= 0^{-1} = 0^{-1} = 0$	₇₀)=
$= e^{-\lambda so} = e^{-\frac{\ln(2) \cdot so}{2s}} = e^{-\frac{1}{2s}} = e^{-\frac{so}{2s}}$	
-XX	
4. CDF(x)=0.99 => 1-6 =0.99	
$=> 0^{-\lambda x} = 0.01 => -\lambda x = \ln(0.01)$	
$=> \chi = \frac{28 \ln(0.01)}{100}$	
In (2) (years)	

Port folio:	
2 4 /	
1. $2000 $ 104. par your => 2200$	
1000\$ Norm (µ=1160, [=80] => 1160	
=> Total after 1 year: 3360	
V	
2. µ=3360 Y=X+2200 M=EEYJ	
V- total amount after your E[x]=1/160	
Var(Y) = E[Y2] - E[Y]2 = E[x2+4400x+27002]-33602=	
$= E \sum_{x=1}^{2} + 4400 E \sum_{x=1}^{2} + 2200^{2} - 3360 =$	
= E(x2) + 4400.1160 +22002-3360 #1	
$Var(x) = E[x^{2}] - E[x]^{2} = 80^{2} = > E[x^{2}] = 30^{2} + 1/60^{2}$	
Lets return to #1 after we extracted E[x2]:	
Var(Y) = 802+1/602+4400-1/60+2202-33602 = 6400	
Var (1) = 88 -1140 + 1-100 /1400 - 2200 3500 (0-100	
$\overline{U_{V}} = \sqrt{Var(Y)} = 80$	1
A Section 1	
$=>\frac{80}{3360}=0.0738=>5+8$ of 7.387 .	
3. 1. Loss (fund only):	
Loss = 160 = - 20x => P(Loss x) = P(X< M-20x) =	
, 0(112=1, 11)	
$= 1 - P(\mu - 20, 2 \times 2 \mu + 20 \times)$	
$Loss = 160 = -20x => P(Loss_{x}) = P(x < \mu - 20x) =$ $= 1 - P(\mu - 20x \le x \le \mu + 20x)$ $= 2.57.$	
2. Loss (fund + daposit account):	
2. Loss (fund + doposit account): Loss = 360 = -4.5 (x => P(x< 1100-360)=	
2. Loss (fund + daposit account):	
2. Loss (fund + doposit account): Loss = 360 = -4.5 (x => P(x< 1100-360)=	



	$\left(L-\mu_{X}\right)^{2}=-25x^{2}\ln\left(\frac{5x\sqrt{2x'}}{L}\right)$	
=>	1x= L= -2 5x /4 (Tx VZR)	is max
- >	M*= 1+ \-25x2h (5x52t)	6
3.	L=2m Gx = 0.02	
=	=> M*=2+0.0543=2.0543m	
		,