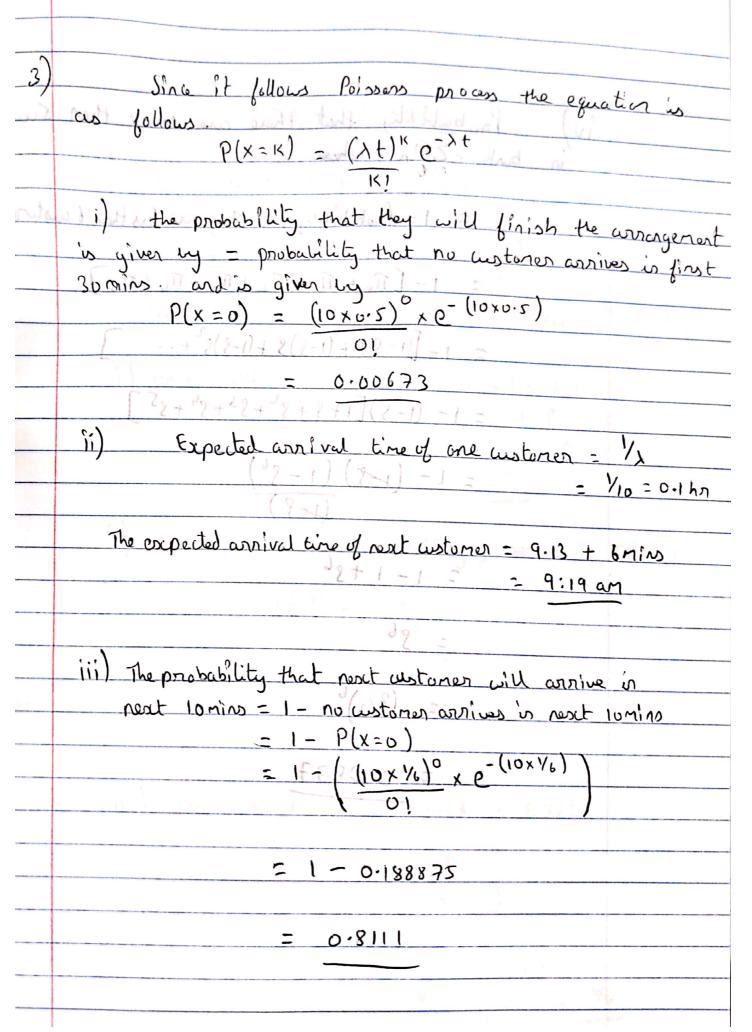
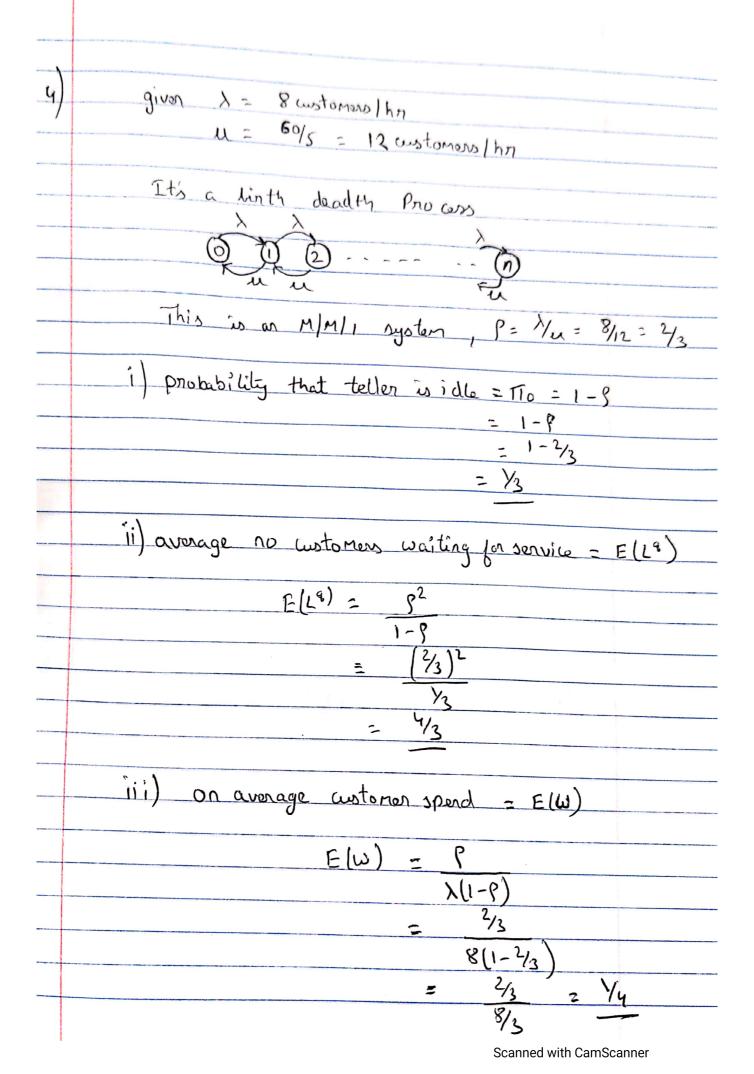
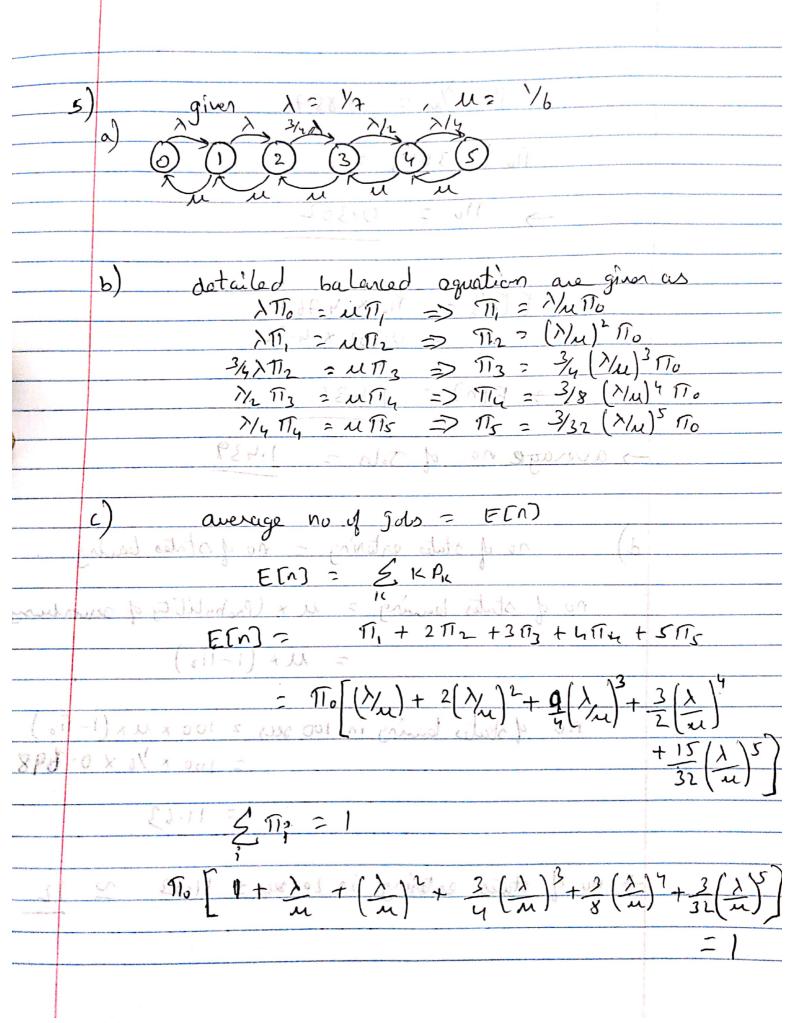


2) 1 This is a poisson process with $\lambda = 2$
the probability that K cases occurs is rest three months is given by
is given by
F(NZN) = QTO
! >A< !
where t = 3
1) $P(x=4) = (x)9 \cdot x = (x)3 = x$
i) $P(x=4) = (2\times3)^4 e^{-x^2}$
$\frac{(91)}{9} = (0 = x)9$
10
2 0.1334
454000000 E
5 4.24 × 10.2
$(2\times3)^{6}\times e^{-(2\times3)}$
ii) $p(x=6) = (2x3)^{6} \times e^{-(2x3)}$
9094-00.000124
1,01× 2.4 =
$P(x=2) = (10)^2 e^{-10}$
! \$
- 0.00226
2.50×10-3
01797.7

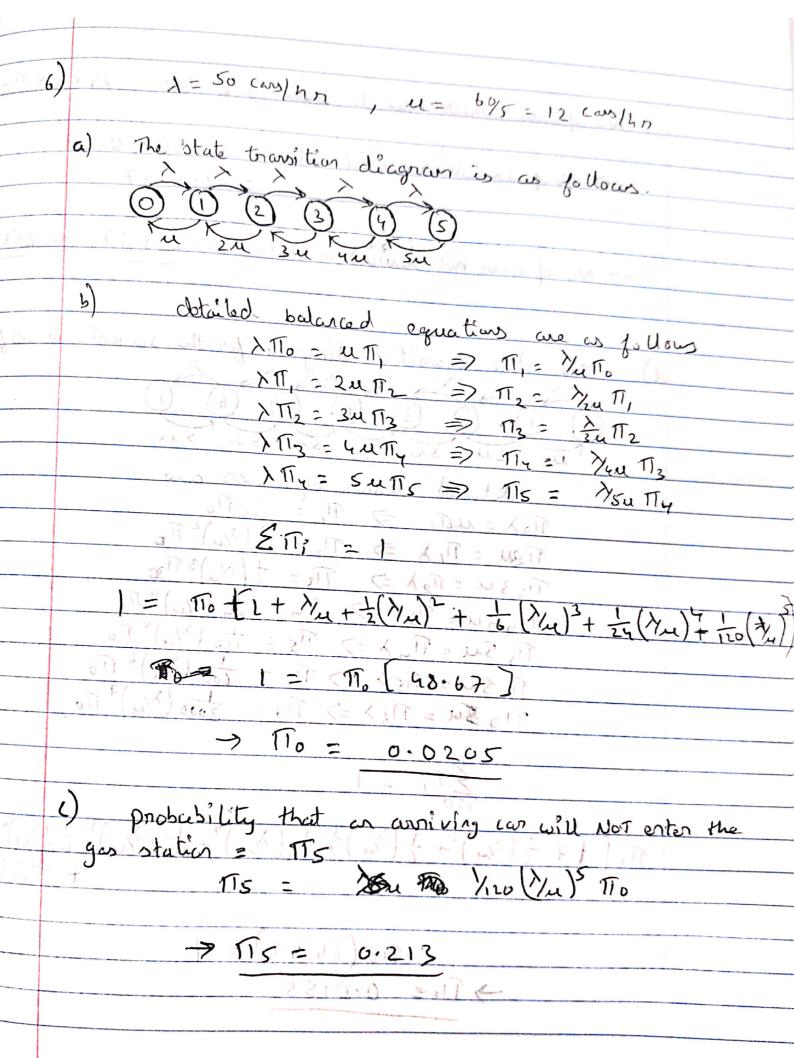




Probability that there are more than sustoners
but 25.11 where 12 1- Probability that there are less than 6 austoney in sank 2 1-[10+111+112+113+114+115] 1-[(1-9)+(1-9)3+(1-8)5+---= 1- (1-8)[1+8+82+83+84+85] = nonotous to a to soil by nos betiegno ent =N 010877 1-0.18883Z 11120 =



	p=1/2 = 0.857
	The [3.304] = 1.00
	-> The = 0.302
A.:	vie an mitage templed to be tot all
	E[n] = 17. x 4.767
	= 0.301 x 4.46
- 1	My all of the suffer of the
	> E(n): 1-439
FIC	1129
	-> average no of Jobs = 1.439
	() - average No of 340 = E(C)
	d) no of states entering = no of states boung
200	no of states bound ? ux (Probability of seventury)
	~ M + (1-liz)
312	= T [ ( ) ) + = ( ) ) = + 0   )
15/5	no of states boring in 100 secs = 100 x ux (1-11.)
1 L 21 +	= 100 x 1/6 x 0-498
	= 11.63
1/4 ) E + [	> no of states extering in loosers = 11.63 ~ 12
1 =	
	Commend with Commen
	Scanned with CamScanner



	No of cars which have to leave in 24 hrs = 24 x x x To
	+ + 21×50×0212
	No gears which carnot onter = 24x 50 x 0.213 = 255.97
	2 255.97
	-> No of cars not sequised in 24 hrs = 255.97 2 256 Cars
N .	Us as an emboure burdet bolitale
3,0	d) The state transition diagram for the scenario is as follows  O O O O O O O O O O O O O O O O O O O
	d) the state of wast
	(D)
	Su su su
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	detailed balance equations are
	$\alpha = \alpha \alpha - \alpha$
	110 X = MIT = 1 ( // 1)2 110 112 M = 11/ X => 11/2 = 1/2 /3 1120
	The 2 u = 10 h => 1/2 = 6 (1/4)
( )_	1 To 1 = 70 x = 7 1/4 = 24 (1/4) "0
	(16 Su = 5 Fis ) => Tib 3 (00 (Ma) " 110
	$ \frac{11_5 \text{ Su} = 11_4  = 2  11_5 = 100  (14)  100}{11_6 \text{ Su} = 511_5  = 2  11_6  = 2  100  (14)  110} $ $ \frac{11_7 \text{ Su} = 11_6  = 2  11_7 = 2000  (14)  110}{2000  (14)  110} $
	70000 = 011 6
	$\frac{220.0}{200} = 011$
	120
Col	110 (1+ \(\frac{1}{2}\lambda_n\)^2 + \(\frac{1}{2}\lambda_n\lambda_n\)^2 + \(\frac{1}{2}\lambda_n\lambda_n\lambda_n\)^2 + \(\frac{1}{2}\lambda_n\la
	110 (1+ 2 (m) + 6 (m) + 24 (m) + no (m) (m)
	17 (m) coos t 2000 (m) FI
	2 110 (64-49) = 1
	-> The 0.0155
-	

= 0000 = (10)1 0.111 No of years lost in 24hours = 24x x x TZ et de laure out red l'idan = 024 x 510 x 0-111 duto pristala a pria 133-72 b. > Business list in 24 hours = 133-72 ~ 137 con 910.0+ 401.0 = -0.120 in some little of Time & 'E This

