b) AKy X; St, St.) los essure 1>+ e) RXIK, .., X-1) = = RXY, St=1(X) -, X-1) = = R(X|St=1) P(St=1|X) -, X-1) 1) KX150., St) P(1/2/5, ., St, X). = P(&1/52) P(&1/52') - 2D Coursian with M= [M2'] monutar P(2,5,1) Mrz toon be defined ٧٥٠١٩٢١٥٥٦ Contino with (t-dim). the cose of sol will be symmetric d-years 385 11 17 Œ Gardian mitture with a comparent sparant lla Cirpaper P(4)P(5, 15,)P(415)P(4, 15,1) the product of contrain mixture with a comparent 45144年14 952 P(K) Sy K, ... K-1) = J P(K; 15; Coursian 8 Gausian 11 P(x/s;) 2 (0 2 0)

(1-2-1-12) 18 P(9,9,..., 2851, ..., 58=1)

(() + lo ay + lo by (0+1)

Buse care: (1,1 = log P(01, 5==1) = log (5=1)+log H(9,15=1) = log or; + log billy) At each done stop it is an att veder (n=26); ++1..., 152000

for th=1... T in L=[f1 f2.

Also, sove Ett (3)= arg nex (1+ + 1-9 arg)

(1)te 3(26) (not wooder) - + 1- (3, 32 (xr60m)

Now bodifieding:

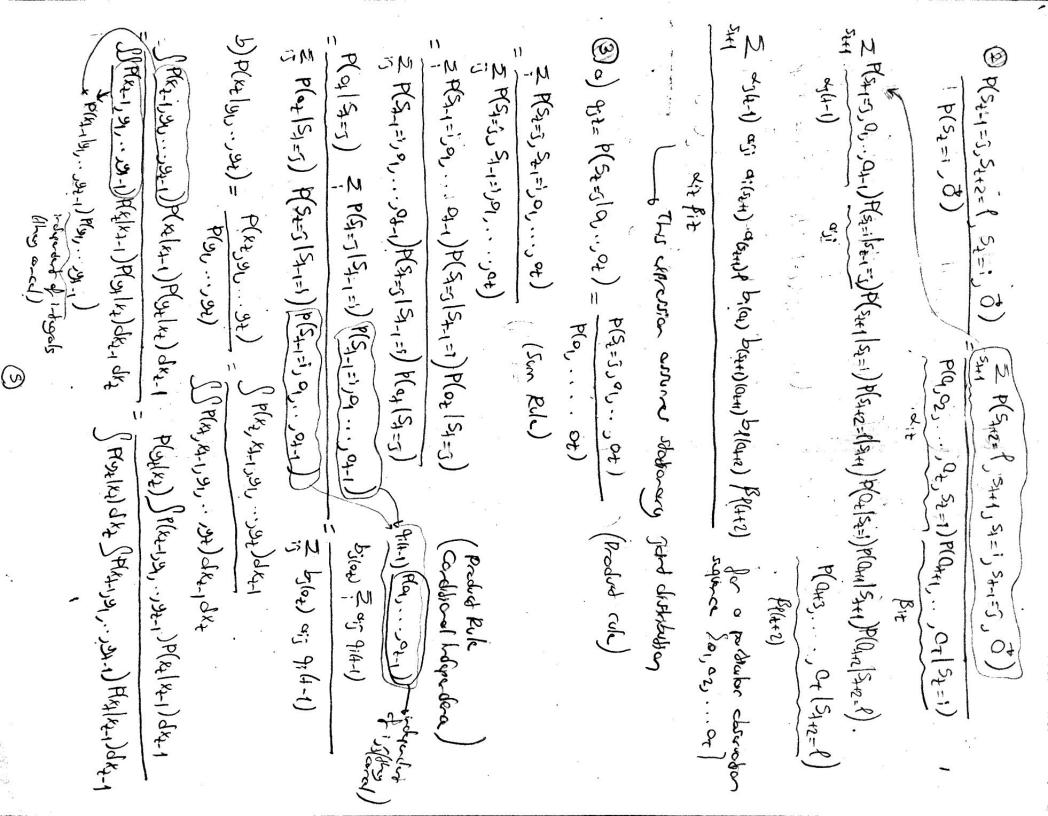
St = Ster (5/+1) _____ Sequence down

Lasdy elmiate repetitions and decide the actual rendered

= = P(x |st=i) P(st=1 |st-1) -+ Countries with a company of (1) R/4 |St-1)= = R(4) St-1 |St-1) = = (2 R(4 | St-1) St-1) P(St-1) St-1)

(5,..., 5) = \(\infty \, \lambda Coustian nuthrough in P(X;15;))

Coursing mixture with n conferents



In the calculations above the gard distribution P(X1, X1-1, Y1, 1, 1) is migralized ance in the cardinator for an extremy distribution, the resident distributions may not be easily to solve thereing the easily to solve thereing the easily are Gaussian, other we know its magicalization will also be countern and this makes the computations traceable.

(B) a) P(4/1x) = P(K/4) P(4) (16)d(19)d+(16)d(16)

on (2m) (2/1/2 exp(=(1/4/1) 27-1/4/1)

on (2x) de [2,1/2 xp(-1/2-1/2-1/2-1/2-1/2)) + on (2x) -1/2 2-1/2 xp(-1/2-1/2-1/2+1))

or, (2/2) 12/ exp(-1/2(x-M) 2-1/x-M))

(200) 0/2/25+2 (01, exp(-1/x-m) 2-1/x-m)+ vs exp(-1/x-m) 2-1/x-m))

(+ 150 exp(-)(x*2/x-1015-x-x*15/Mo+1015/Mo-x*2/x+1/15-x+x*5-M-1/15-/M)) (M-M) 15-1x + (x 12-1/M-M)) who (M-M) 12-1x

1+ 50 cm (= (2(M-MO) 51 X+ MO 2 MO-MIZIM))

1+ exp(-[(M-10) 12-1x+ 1 10 12-1/0- 1 1/2-1/1 - In (wo/s,)]) where w= 2-1/M-Mo) b= = = 10-72-1/6- = 15-1/4-In (VI)