Lec 20 Mont 3+1 4/30/11 7: X, ... Xn / 8,00 2 169 N(8,00)

P(X V X) = S(P(X 10,02) P(D,02 | X) ADdo2 = Th-1 (x, 5 /41) 2 N(x,52)

without doing the mayer, coul P(X* /x) be supple from ?

= S[P(X*10,0) P(O|X,0) P(O|X) 1820 f PD,00) 00 %

Step I: Simple of In In barrown (1-1 (9.1)52)

II: Suple Day fin N(x, 02)

III: Smill Xsop In Moor

IV: The I-II my som

I : ship glass Xxmp

If (68) × = only prim Back to inturne. P(D, 02 | X) ~ P(X | D, 02) P(D, 02) = Norm In V Gamm

Who is de gene copyer pour? Nox.

P(0,62/x) = (67) = (67) = (62)

 $K(G^{2}|X)$ $k(G|X,G^{2})$

= KGLX) PGZIX) KOIX, B) (18/8) Norm

Tasso 60:00) = 66100) 600) => POI 02) = N(no, 50), P(02) = Intom (2003) =) P(0,01x) = Norm In Grumm (complianted) he not booker!! the P(0,00) × = > P(0/00) = N(0,00), P(02) = Fr (comm (0,0)) the only one her works! Bus. Who if PO(02) = PO)P(02) Were P(0) = N(0,00), P(02) = Interpret (\frac{1}{2}, \frac{1}{2}) for model will or trum Conj pmi for mode had & Krown Color hopping? B(0,62/x) x P(x/0,62) 8(9) 8(62) x k(x/0,62) k(0) k(02) = (62) -42 e -702 (4-1)52 + 4 (x-0)2) (e - 272 (6-10)2) (02) - 20-1 - 4005/2 Noe $\frac{4(x-9)^2}{262} = -\frac{4x^2}{262} + \frac{4x8}{62} - \frac{48^2}{262}$, $-\frac{1}{12}(9-40)^2 - \frac{8^2}{22} + \frac{840}{22} - \frac{10^2}{222}$ $= \left(6^{2}\right)^{-\frac{h}{2} - \frac{h_{0}}{2} - 1} e^{-\frac{1}{200}\left(6.1\right)5^{2} + \frac{h_{0}}{0}6^{0} + \frac{h_{0}}{10}} e^{-\frac{h_{0}}{10}} e^{-\frac{h_{0}}{10}$ XN(26, 26)

From midem 2 ... N(26, 26) = \(\frac{b}{2} e^{-\frac{a^2}{4b}} = 62 - (2-1) -1 e - 20 (h-1) 52+ 4, 63 + 422) [7 e 25 (\frac{1}{17} e - \frac{17}{2}) e 10.00) $=k(\sigma^2/x)$ ty o find P(orlx) non. $k(\sigma^2|X) \propto (\sigma^2)^{-\frac{h_{uno}}{2}} - \frac{d}{e^{-\frac{1}{2\sigma^2}}} \left(\frac{h_{x}}{2\sigma^2} + \frac{m_o}{\sigma^2}\right)^2 / 4\left(\frac{h_{x}}{2\sigma^2} + \frac{m_o}{\sigma^2}\right)^2$ of Inv bound Problems !! Acouly it's not anything!! First time Bonyes has failed 45!!! hur do ne do now? If we wor P(Dro2 | X) = P(Dlo2, X) P(02 | X) he heed a my to sayle from P(2/x) only gra to 62/x). Lackity we can use conjusters! Recull: P(62(X) = Ch(67/X), he can try to approxime the form cosso C through a procedure collet grid simpling!

Grid Simpling Algeriah	LE
D'here a good by Sessing on, ones, a gre	
Corpropry.	
G:= \(\frac{2}{m}, \sigma_{mn} + \D, \sigma_{mn} + 2\D, \dots. \sigma_{mn} \} \)	8
$C_{i}g$ $C_{im}^{2} = 0$, $C_{mm}^{2} = 1,000$, $A = 0.1 = 5$ $C = \frac{5}{2}0,0.1,0.2,,979.8,9$	399,9,100
(Annoge)	
D'Expre $CR = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \left(\frac{1}{2} \left(\frac{1}{2$	
Depend sup II es may three as you want	
and the ty	43
Sompley from posserior (ne did this lact class) P(0,621X) ~ P(0,62) P(02/X)	
D Souple of Sop from grid sayplar! (Souple Osap from N(x, 6/4) where of set 62	
(II) Ship (Bong, 62 mp)	
IN Repent I-III as may then as deame	