7 Sdy . 336171 N'XO'N The stall Znn(0,02) y= 11+2 g(y|u,o) = g(u+z,u,z)=P(y=u+z) = P(y-u=z) => y-u 21(0,02) $= \frac{1}{\sqrt{2\pi\sigma^{2}}} \exp\left(-\frac{z^{2}}{2\sigma^{2}}\right) = \frac{1}{\sqrt{2\pi\sigma^{2}}} \exp\left(-\frac{(y-u)^{2}}{(2\sigma^{2})}\right)$ = 1 12 1102 EXP (- (M-y)2) => Yn N(M, 02) A M = M. R. Sul In (g(y, u, 0).) = n R. 38 (ln (2700 · exp (- (u-y))2 $ln(2\pi a^2) exp(\frac{(u-y)^2}{2\sigma^2}) = ln(2\pi a^2) + ln(exp(\frac{-(u-y)^2}{2\sigma^2}))$ 87 2 C + (- M-4)

=> \frac{3}{2\pi} \left(-\left(\frac{1}{2\pi} + \cent(\right) = \frac{-14y}{0^2} - \frac{y-a}{0^2} => AM = M. R. g. u (AM= n d(R) d(-(m-y)2) (-m-y) = - (m2-2my+y2) = -(m2)+(2my)-(y2) = -m2 + 2m(y) - (y2) = -m2+2mu-02-u2 Var(y)=(y-)-(y)2 => (y2) = Var(y)+ (y)2 = 02 + 112 grp(1,02) e 12/61 => (Au)=n d(-m2+2mu-02-u)=n (2m-2u)=2n (m-u) 1801 - Just 36 'W? 1070, je 6,0 191 Mills 22 11 8100 - 25 0 112 2:20 18 2.777 PNE 12 1.3.505, N. 1.1. 8.55. LE 1/1. · (2 > 1/10) & TOT (12 1/10 1 · (16 3 14 1

m (1212 (1312 CX) * 126 M. (132 J.M.) , can (1/2) 1. yes : is the solution - 931 ill : 188 : sy