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X ~ N (M, 0,2), 0, = 0.00003 [X;=15.19991 Problem 2 Prior of M. follows. N (1.52000, 0.00012) HAR HOR Posterior dichi buta. ((M,/x) = P(x/M). P(M) $P(\mu, | x) \propto exp \left\{ -\frac{1}{26} \sum_{i} \sum_{j} (x_i - \mu_i)^2 \right\} \exp \left\{ -\frac{1}{26} \sum_{i} (x_i - \mu_i)^2 \right\}$ Putting values for par = 1.52000, 0x = 0.0001, 0, = 0.00003, n = 10 $\propto \exp\left\{-\frac{1}{2}\left[\left(\frac{10}{0.00083} + \frac{1}{0.0003}\right)\right]^{\frac{1}{2}} - \left(\frac{2}{0.00003} \times 15.19991\right)\right\}$ + 2 × 1.52000) m] 1.51999108 8.92e-11 .'. Milx ~ N (1.51999108, 8.92e-11) news p. /x ~ N (1.51999108, 0.00000000891972)