Density function for a normal random Mariab le using (), probability for a given (x, k) pair mill be: $P_{K}(x) =$ 12710-22 Janos Plugging in values, where issuing duit dend is classified as I & not issuing a dividend as O 2/10

$$T_K = T_{yes} = 0.8$$
 $L_K = U_{yes} = 10$
 $L_K = U_{yes} = 10$

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$$P(y=yes|x=4)$$
= 0.8 · exp $\left[-\frac{1}{2.36}(4-10)^2\right]$

0.8.
$$exp\left[-\frac{1}{2.36}(4-10)^{2}\right] + 2$$

$$0.2 exp\left[-\frac{1}{2.36}(4-0)^{2}\right]$$

$$= 0.8. \exp \left[-\frac{36}{2.36} \right]$$

$$0.8 \exp\left[-\frac{36}{2.36}\right] + 0.2 \exp\left[-\frac{16}{2.36}\right]$$

$$= 0.8 \exp\left[-\frac{1}{2}\right]$$