2)9) XERZ Dea Vector about 9(6=1)=3 G Discreta con (3=31,23 M= (1 1/2)E X G=A NN(M, E) 12=(-1/2 1) X 16=2 NN(M2, E) Z= (1/2) a) $f(x) = f(x) \cdot P(6=1) + f(x) P(6=2)$ x = x = x = x $= \frac{1}{2\pi \left[den(\Sigma) \right]^{1/2}} \cdot exe^{-\frac{1}{2}(x-\frac{1}{2})^{\frac{1}{2}}} \sum_{i=1}^{n} (x-\frac{1}{2})^{\frac{1}{2}} \cdot \frac{3}{4}$ $+ \frac{1}{2\pi \left[den(\Sigma) \right]^{1/2}} exe^{-\frac{1}{2}(x-\frac{1}{2})^{\frac{1}{2}}} \sum_{i=1}^{n} (x-\frac{1}{2})^{\frac{1}{2}} \frac{1}{4}$ -1 8π [σετ(Σ)]^{1/2} [3exp {-½(x-1,1) [x-1/2] + exp }-½(x-1/2) [x-1/2)]

$$\sum_{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \sum_{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \sum_{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \sum_{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \left(\frac{1}{1/2} \frac{1}{1/2} \frac{1}{1/2} \frac{1}{1/2} \right) \xrightarrow{i=1}^{n} \left(\frac{1}{1/2} \frac{1$$

$$\Sigma_{N} = \Sigma = (\Sigma^{1/2})^{\frac{1}{2}} \cdot \Sigma^{1/2}$$

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$$\Sigma_{N} = \Sigma^{1/2}$$

$$= Vor(A^{t}(X-T_{X})) = A^{t} Vor(X) A$$

$$= A^{t} Z_{X} A$$

(2)