p(y)= (111) 2 ( Jet A-7 exp(- (y-y) A(y-y))

1) Tonazanos imo pacnenegacence malacino
Acquiapolario Zagara 2.5 A- grangerance Municipalities =) 75: STAS=E.

JetS= VietA  $\int_{\mathbb{R}^{n}} e \times p \left[ -\frac{(y-y)^{T}}{2} A(y-y) \right] \int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \frac{1}{y} = \int_{\mathbb$  $= \sqrt{\int_{\mathbb{R}^{n}} dt} \left( -\frac{\hat{\xi}}{2} + \frac{2\hat{\xi}}{2} \right) \int_{\mathbb{R}^{n}}^{2} dt = \sqrt{\int_{\mathbb{R}^{n}} dt} dt^{-\frac{n}{2}}.$  $\int_{\mathbb{R}^{n}} \frac{1}{i^{2}} dx p \left(-\frac{2i}{2}\right) d^{\frac{n}{2}} = \left(\int_{\mathbb{R}^{n}} e^{-\frac{2i}{2}} dz\right) = \int_{\mathbb{R}^{n}} \frac{1}{i^{2}} dz$ = \( \sqrt{2\et A^{17}} \cdot(2\tau)^{\frac{n}{2}} = \) \( p(\gamma) \) - requipolano.  $2) \langle\langle \widetilde{y}_i \widetilde{y}_j \rangle\rangle - ?$ Torumaeu unmernan:  $\begin{cases} e^{-\frac{y'Ay}{2}} + \sqrt{y} & \sqrt{x} \\ = \sqrt{x} & \sqrt{x} \\ = \sqrt{x} & \sqrt{x} \end{cases} = \sqrt{x} + \sqrt{x}$  $= \sqrt{Jet A^{-1}} C^{\frac{y-2}{2}} \int_{\mathbb{R}^n} C^{-\frac{y-2}{2}(\frac{y-2}{2})} \int_{\mathbb{R}^n} C^{-\frac$ 

32 J. D. G-YTAY - J'Y JY J J Y. Y. e 2 2 3) 2 ( 2 ) = 37; ( 2 x x x m ) = 37; ( 2 x x m ) = = 0 1 A 1 A 1 J X A x i ) 3 ( 2 ) - 2 ( 2 ) - 2 ( 2 ) - 2 ( A im ) + 7 ( A ii) =  $= e^{\frac{1}{2}(A^{-1})(A^{-1})} + e^{\frac{1}{2}(A^{-1})} + e^{\frac{1}{2}$ Thearax Joo racyllul;  $(C G_i G_j >) = / \frac{Y_i Y_j}{\sqrt{\partial e^{i} A^{i}}} (2 15)^{\frac{n}{2}} (2 15)^{\frac{n}{2}} = \frac{1}{2} (2 15)^{\frac{n}{2}} (2 15)^{\frac{n}{2}$ = e = A = 1 3) Onserumo voyemmama Wa Types Q = (XTX) = XT: W = Qy , X - wangunga W=QGI(W)=(QxiGi)=Qxigi=w odrewn gregords. ((W, W, )) = ((W, -w,)(W, -w,))= = Qai Qpj ce gi gi >> = Qai Ais QTi = QA'QT var w= < e w w >> = (Q A "Q -) = x Les consuporances 4) A= f;ag(A,..., An)

 $Var w_{\lambda} = (Q^{*}AQ^{*})_{\lambda\lambda} - \frac{2}{\epsilon}Q_{\lambda i}A_{i}^{*}Q_{i\lambda} = \frac{2}{\epsilon}Q_{\lambda i}A_{i}^{*}Q_{\lambda i} = \frac{2}{\epsilon}Q_{\lambda i}A_{i}^{*}Q_{\lambda$ Si -nerpeccocont Ty