P(-AB) = 1-P(AB)

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[RB] test Notill Sheef 1

[1] 
$$P(t | \tau l) = 0.005 + folse + Ve | red of the point of the point$$

4444444444444444 ع بده بتقع می ارتفاع دداست ارتفاع دداست البرین تطلع! \*if Ut - 3m/52, what's the Prediction of Kalmenfort-1, Compute mean & Covariance of the State! Preelichion:  $\rightarrow M_t = \begin{pmatrix} 1 & 0.1 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 3 \\ -1 \end{pmatrix} + \begin{pmatrix} 0.05 \\ 0.1 \end{pmatrix} \begin{pmatrix} 3 \end{pmatrix}$ It = ALME-1+But It = At It-IAET+Rt = (2.915) Given Correction: = = ( 0 1) ( 40) (10) + ( 0.10) ( 0.04) Mt=M+ Kt (Ft-Ctote) = (0.1 1.04) } Symmetric 0 = (0.1 1.04) } higher then If-1  $\mathcal{Z}_t = (\mathbf{I} \cdot \mathbf{K}_t \, \mathbf{C}_t) \, \overline{\mathbf{Z}}_t$ 1.7) Zi = 2m, Gz = 0.1, What are the mean of Warrance of the Greated State?

GC = (10) (, Qt = (02) = (0.01)

-0.915  $- \star \mathcal{M} \mathcal{E} = \begin{pmatrix} 2.915 \\ -0.7 \end{pmatrix} + \begin{pmatrix} 0.998 \\ 0.024 \end{pmatrix} \begin{pmatrix} 2 - (10) \begin{pmatrix} 2.915 \\ -0.7 \end{pmatrix} \\ = \begin{pmatrix} 2.915 - 0.915 \times 0.998 \\ -0.7 - 0.915 \times 0.024 \end{pmatrix} = \begin{pmatrix} 2.002 \\ -0.722 \end{pmatrix}$ → Z= [(0)-(0.998 0)](4.11 0.1) > 5t=(10) (4.11 0.1) (1)+(0.01) = 4.12

 $\Rightarrow 5t = (10)(0.1 204)(0) + (0.01) = 4.12$  $\Rightarrow 1.12$  $\Rightarrow 1.12$  $\Rightarrow 1.12$  $\Rightarrow 1.12$  $<math display="block">
\Rightarrow 1.12$  $\Rightarrow 1.12$  $\Rightarrow 1.12$ = (4.11) + 4.12= (0.998)= (0.998)