20186103 HW3

(b) (A+B) (A-B)= A'-AB+BA-B' $A^{2m} = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 \end{pmatrix}$ ·: 137 B1 - . hot work

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d. -101-212-103-14 Sylvetric (c) ET = (AB) = BTAT = BA +AB=E Ush Symmetric (d) F' = (ABA) T = (BA) TAE XIBTATE /BAE(E

Symmetric (e) (7): (ABHDA)T=(AB)T+(AA)T = BTAT+ATBT = AB+BA= G Symmetic (f) | 1] = (AB-1X) = (AB) - (BA) Honsynnetric

7 (a) $\bigwedge_{Y \subset SY_1} \begin{pmatrix} 2 & 1 \\ 0 & 1 \end{pmatrix}$

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