20057110 Assignment - Subspace 14. (9) Ritsolf. 13. All lines obntaining (D.D) I car. fixys/ xgeN3 or fixing | xiye Zy (b) = { | 00) } (b) {(x,y) | 4=3x or 4=4x } Sm= {(an) ach} Remote x-axis from the plane but leave the origin Sm= { (0 0) | ack } on reself. 10. 102 Var sada 10 2 1 1 1 1 1 1 It's a plane containing (0.0,0) (b) X no origin 15, in line through co, D, D) silf is just the think (5) (b) line okstolgh (0,0,0) V,=(0,/, V), V=(/,0,2) both the point (0,0,0) init, but for 0,+0,=1/,1.40, (C) for SAT. it should be in the space but not if owere is any v. us in so. (e). V 3 planes containing (0.0.0) the site of the Di, B. B. both in S Man mitalining The XI. it. V. in both in / Vi=10, 1,2) -20, = (0,-2,-4) not in it is to cov, in S (:1/5 and some). 8 10xtx H P.+ By in SI's, face spices $M_1 = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix}$ $M_2 = \begin{pmatrix} 0 & 1 \\ 0 & 2 \end{pmatrix}$. 10 DC. J., C.Z. 12.+2 ESM. i, Smallest subspace on Richard in Po Sm = {(00) a, beRg (b) Sm= [00) @ acky (00=0-M, should be in it (c) Sm = { (a o) | A, bt. R. 9. Zero Matrix but Ois notife

ibs for example, if Many. 30. as If a, B are both in S+/. (v), (ov) an singular. if it is a space, 1:3+32 と5 De colos Prould. Ciuties+T. (2) for cu = cs, + ct, but When C1=1, C2=1. Vios, eS cEIEI i, où E S+]. () is an invertible b). July is a plane spanned. 5+1 by these two lines. matrix not on it St Might M 1 (d) SUT is just the two lines. 18. 10) V Just House V. (01. 31 sujus not a space. 7 A. AZEM es A smallest outspace containing L'A, = A, Ax Ax SUT should be spanned from i, A, +Ax = A, +AJ The month of the said And the result is just the i', AITANDS in M. plane containing the two. Y O,A, = C, A,T lines, Which is S+ is C.A, is in M. (b) A A, AVEM A, +A2 = (-A,7) + (-A2) · (10)= M (00)=M The SECALTANT ST. ST. 1) Sventlest sintspress · L', A, tAx on the M. Mso. & c.A. on the M. (0) x (10) + (0) = (10) 930 350 1 0 0 1 0 1 cd: should be in Mi but not N3944 (0 4 1) = 43 (0) And 25 (1) And