Task 1 a) {c3-> {B} we know that FCZ: {C}> {A,D} I deamposition. 3037 {A3 8453 = {BC} 1 Transfirity そくろうをおいる taskz a) X= {A} X+= 8A3 FD1: {A} > {B(} Y= { A 3. Z= { B 6 } = Yin X+, Znotin X+ X = {A}U {BC} > {ABC} FDZ: Y={(3, 2= \$40}

Yinxt, & not in Xt

X = {ABC}U(AD) > {ABCD}

6) {AB}-{F} \$A3= \$B,C} 1 Augmentation SAES > [BCE] 1 olerosposition SAEST SUS FAESTES 3137 [AD] 3 > {AB > {AB > {ADE}} {AE3-> {AD} 9A537 PDE3 SPES- SF3 {AE3-> SF3. WX=SCE3 Xt= {CE} FDZ: /= \$(3, 2= {AD} Ymxt, Znotin X+ 50 x+={cE}U{AD}-\$ACDE}

FD3: {DE3>5F}

Y= {DE3, 2= {F}.

Yinx+, 2 mt mx+

So X+= {ALDE3U{F}>} {ACDEF}

task3 1 See a) Retermine the comolidate keys (cks) for R = 1136 According to trick one. A should be kept. falt was self According to trick two, & A morning (4.4) e [1]: 5.34 So cles should be FABS FADS FAEST FAEST . withcompaly ! DSF3= FF 3 7D3=FB Wolate the condition O RIABODEF) (057 = EM 3137973 violat the Best condition it itiliant 8143E[3] TABODE } FEFS FD: FABSO FCOE 3 903> (B) (€ 30) cks : {AB} {AD} vecan see 903 9933 violate the RCNF condition. SACDE3 3DB3 HD 201228) CK: 203 FD: {AD> {CE}} CKJADZ tasky 1 PCA.B.C. D.E) BGE CK: [B6] 703: 3137503 violate the BEAF condition. X 15 (40 8 (7 Km) 100 84 7 ELEVINO 8 1 14 FD: {BC} > {AE} FD: {C}->{D} CK : C