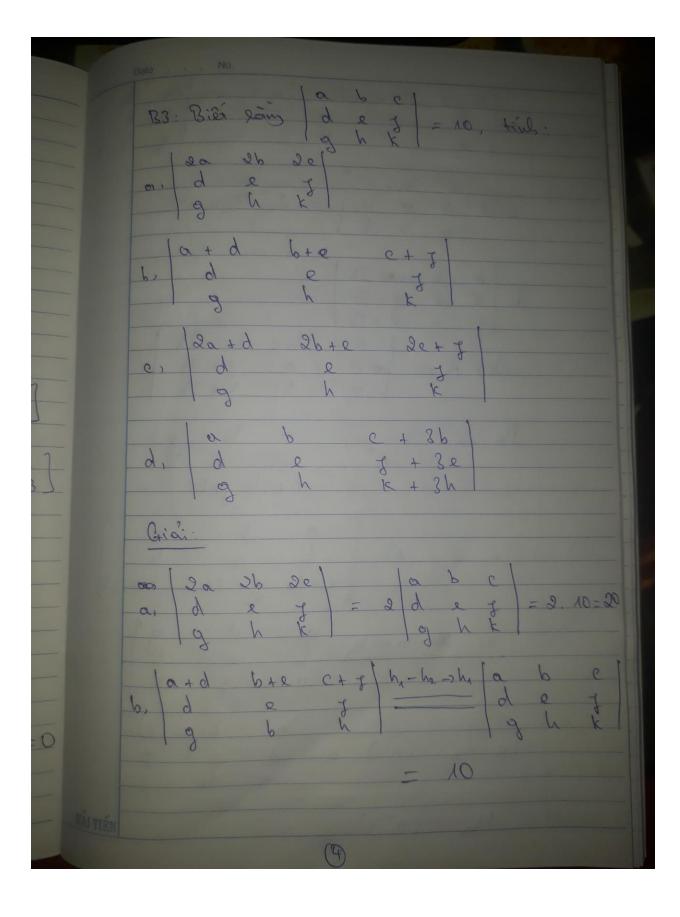
BAI 3. DINH THUSE LING DUNC DINH THIS B1: as Cho ma trân A cã 4,4 có det(A2)

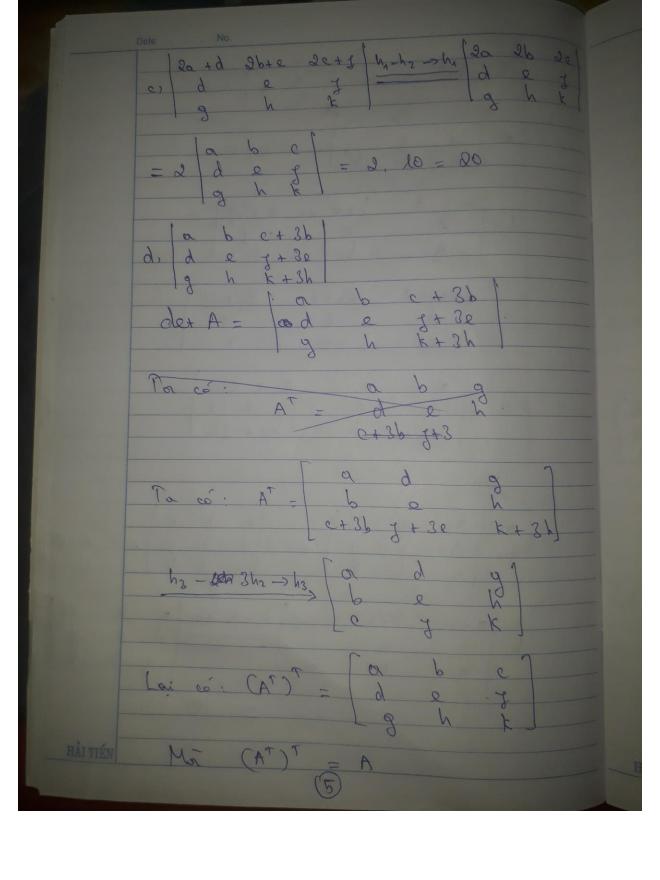
det A = 1. Pin det (2A), det (-A), det(A2) và det (A-1) hong tim det (1 A), det (A), det(A2),

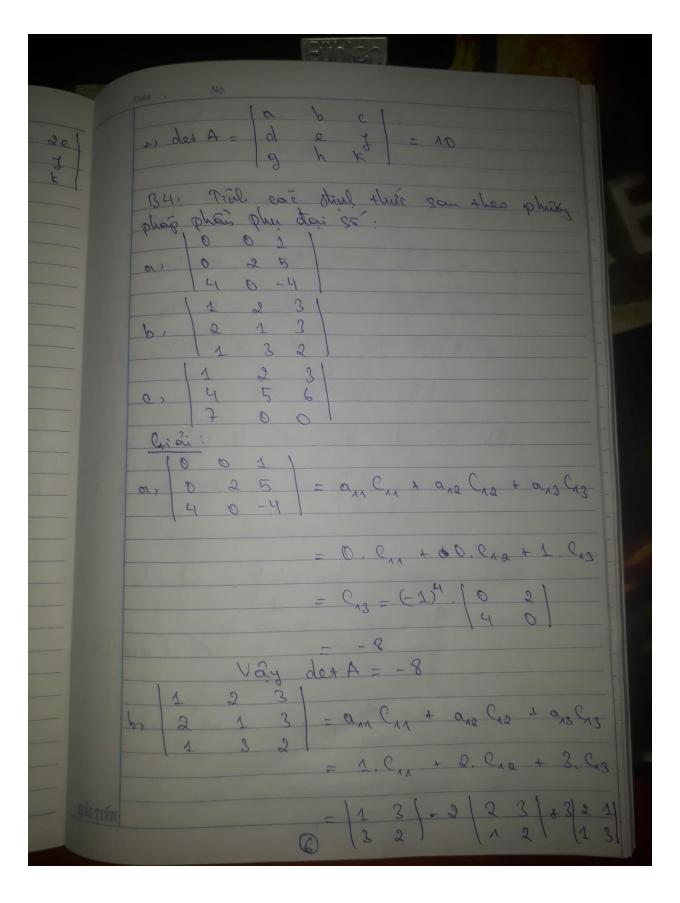
det (A1) Ciria: To co: A 4x4 có det A = 1 (+0) +> dex(2A) = 24. dex A = 8 +, dex (-A) = (-1)" dex A = 1 +, dox (A2) = dex A dex A = 1 +, $dex(A^{-1}) = 1$ = 2 dex Aby To co: Agrs co derA = -1 (+0) +, dex (1 A) = (1)3. (-1) = -1 +1 dex (-A) = (-1)3 (-1) = 1 +, der(A²) = derA. der A = 1 11 der (A⁻¹) = 1 2 der A

B2. Core khány dive son dung hay so Háy gión thick voi non phán ví du do as des (I +A) - 2 + des A b. det (ABC) = det A det B det C c, det (4A) = 4 det A d, det (AB-BA) = 0 Criai: 1A8 ,0 Ta co: + dex A = 1 + 1 + (-2) = -1 a VT + VP dex (I+A) = 1 + dex A b. DUNG c, SAI

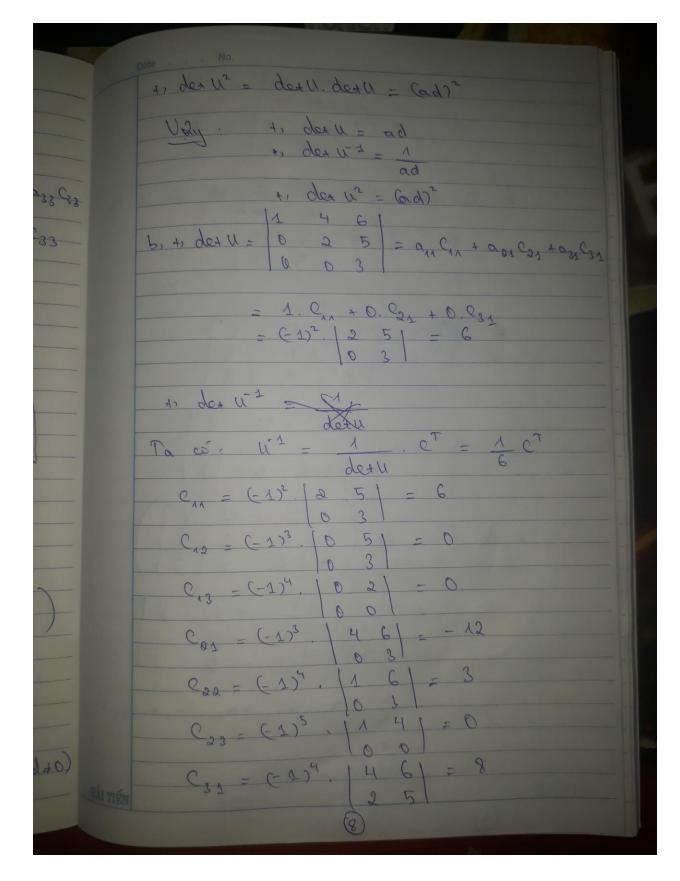
Ta co: dex (9A) = dex / 4 20 VT = dex (9A) = dex / 4 20 -208 UP = 4 dex A 4. (-13) = -52 5 VT # UP dex(4A) 7 4 dex A d, SA1 A8 - BA = [7 9] -=> do+ (AB-BA) = |-9 =, dex (AB - BA) # 0

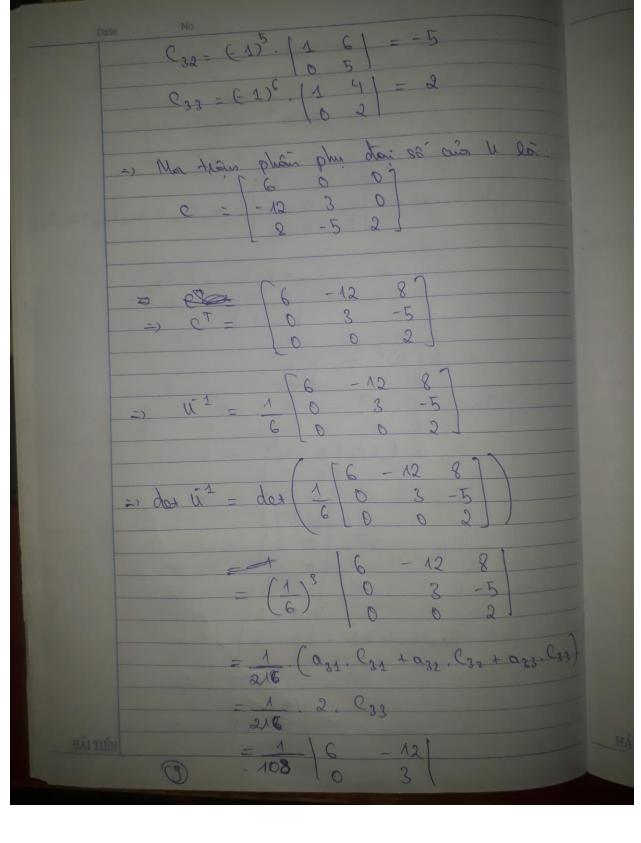






-7-2.1 +3.5 Vary det A = 6 = a31 C31 + a32 C32 +a38 00 = 7 C31 + O C32 + O C33 Voly det A = -21 85. Pin dial their air U, Wi, W a, u= [a b] b, u= 0 2 Gia: +, dex vi2 = 1 dex (Vé: ad + 0) (0 d)2 (ad) ad = 1 (Vé; ad = 0) (£)

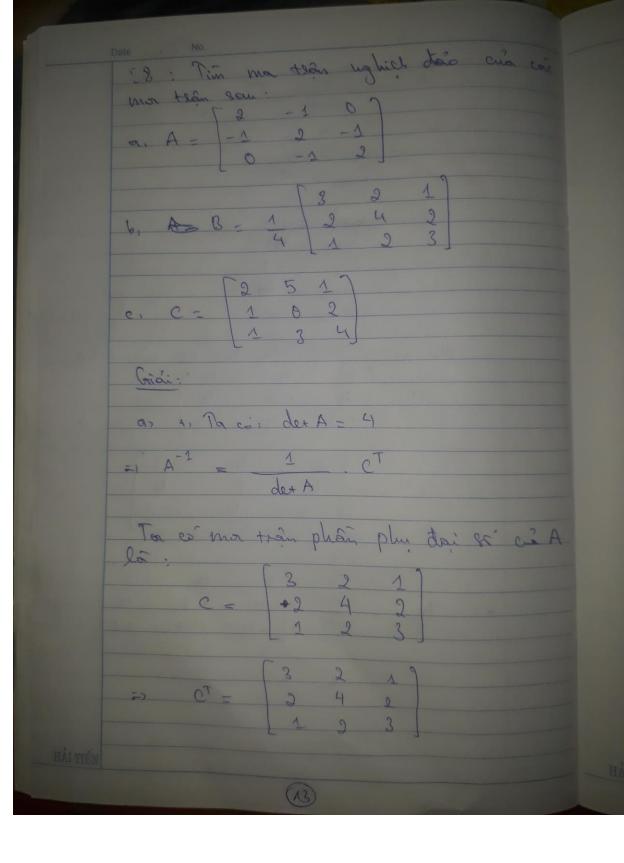


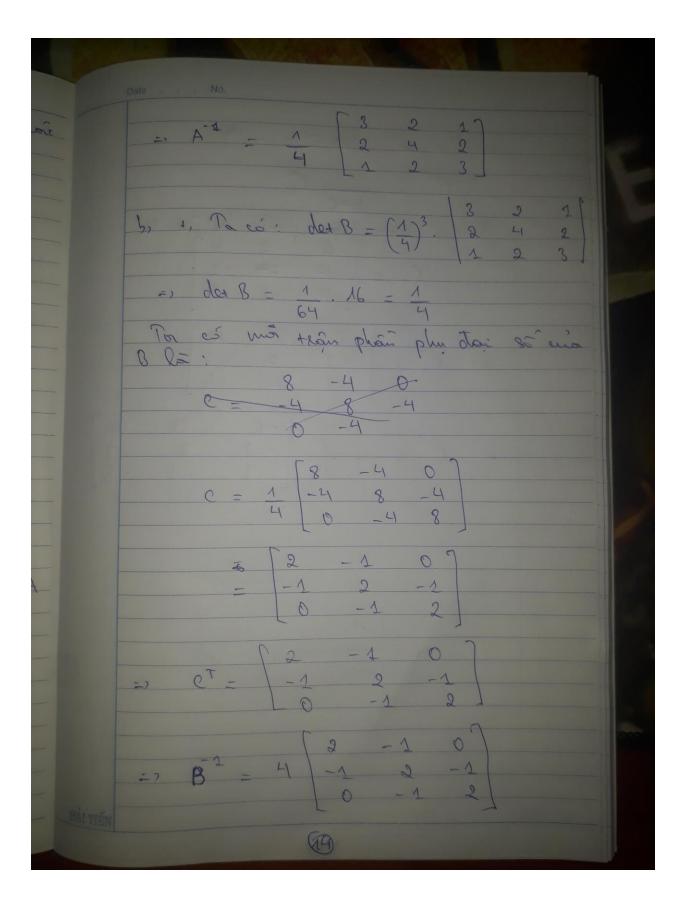


108 - 8 1 1, dex 112 = dex U. dex U = 36 Vojy: + det 11 = 8 6 + det 11 = 36 7381 BG: Chiring minh song: det 1 b b2 = (a-b)(b-e)(e-a) Criei: - (b-2)(c-a) (an CAA + a21 C24 + a31 C34) = (b-a)(c-a)(1c₁₁ + 0. C₂₁ + 0. C₃₂) - (b-a)(c-a) (1 b-a) 1 e-a

= (b-a)(c-a)(c-b)= (a-b)(b-c)(c-a) = VPTa có diên phái chứng minh. B2: Siè dung công thuếc phân phụ được tim ma trận nghia đảo củo: A = 2 3 3 Criai: 41 det A= 0 h3 - 2h2 -> h3 82 an CAA + and CAR + and CAR 0. Cxx + 2. Cxx + 0. Cx3 $2. (-1)^{3}. | 1 2 | -2 |$ -2.2 =-4 (A)

det A tob Ta co. C = 0 (0-C12 = 4 C22 = -8 C23 = 4 88 C33 = -2 => Ma than phân phụ đại số aix Alà 0 4 -4 4 -4 N





To co: dex C = -19 Oleac trâm phân phụ đại số của - 17 70 10 107 -5 19 (15)