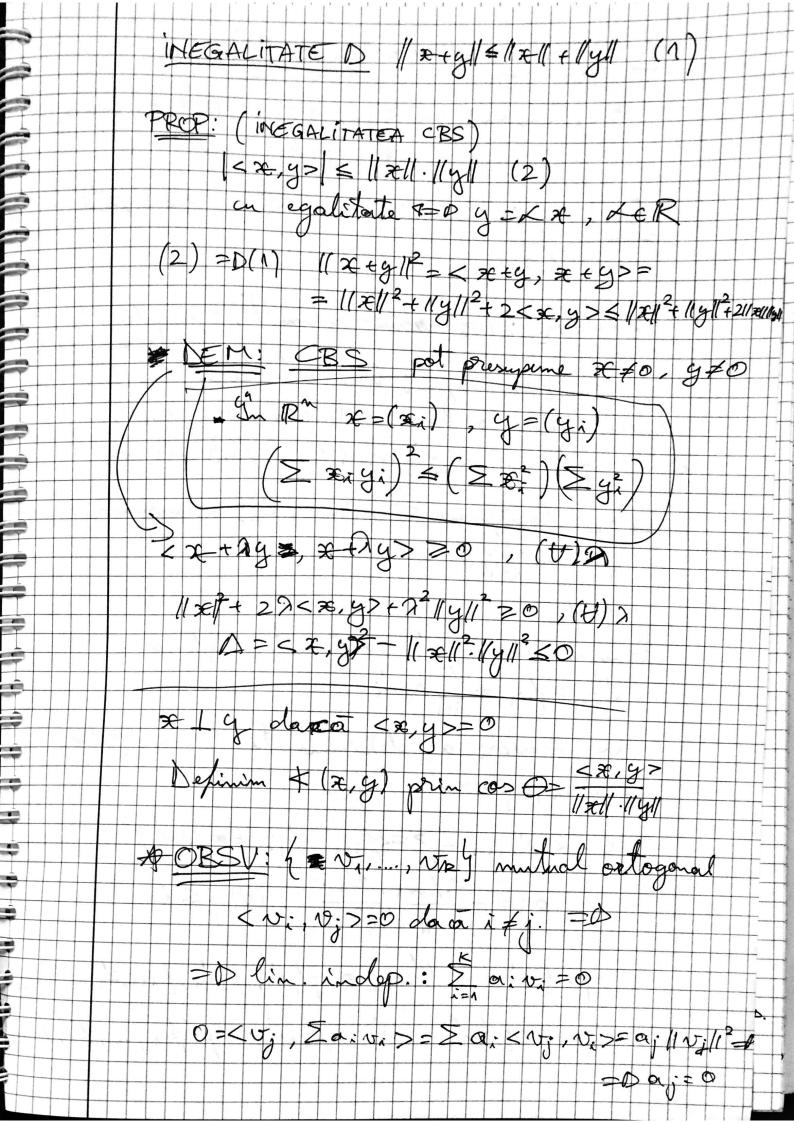
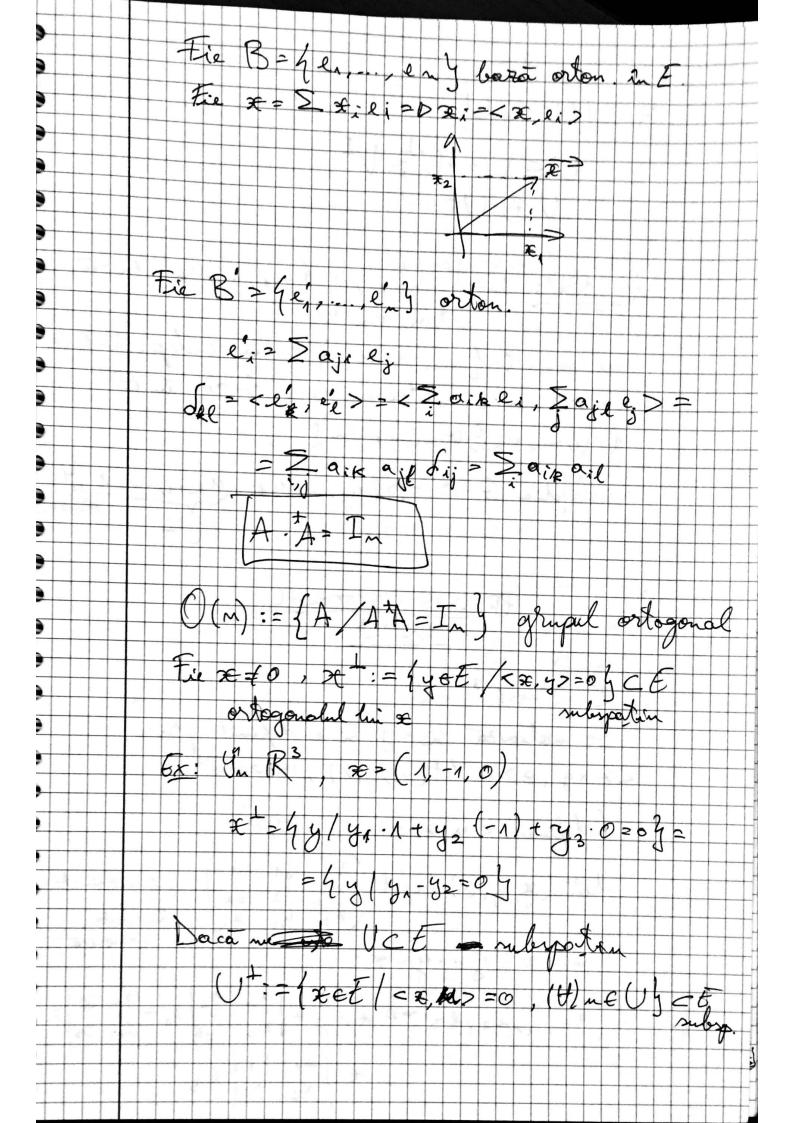
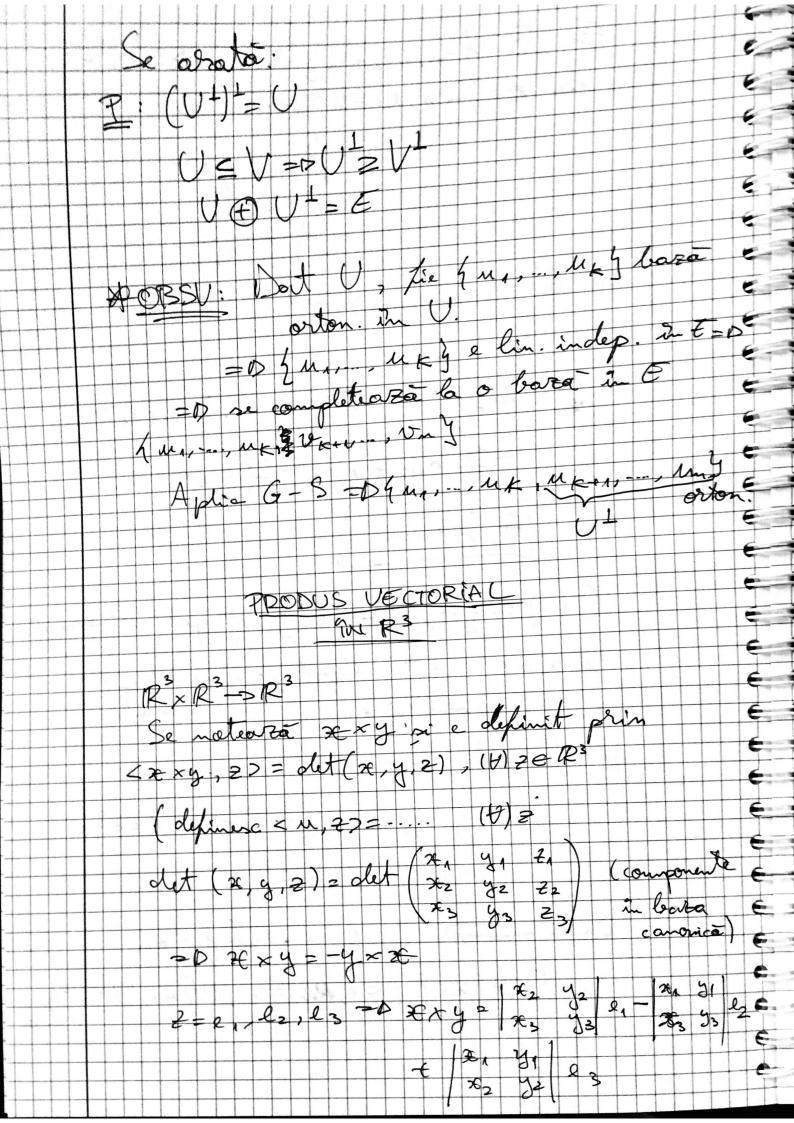
minimal direide polinom 20.04.2018 SPATTI VECTORIALE EUCLIDIENE E/R di beliniara mueltuca si positiv defenda. ,7:ExE ->R <x,y>= £<y, x> (simetria < x, x > ≥0, (4) x € € cu egalitoite 4=0 2=0 Ex: 70 Rm < x, y> = = = 1 9 iyi DBSV: portin definita = 0 nedegenerare (A) y = 0 = 0 a asociata produsului xa x = (< x, x>



Daze ortogonale (ortonormate) cu < e: e; >=0, (\forall); \forall j \colon \forall o\forall j. <ei, e, >oi, orton Ex: Baza comonica din R'n e orton. Tata de Zzigi. TEOREMA: (& Geran - Schmidt) - proceden de e Fie 2/11. / J bara arbitrara. in (E, K.) Atmai exista o baza ortonormata (en, -, en) Dem: Construier o bara q'e i g'ortogonala April ei = lie'il e: construiti, definesa Presepun en realori a determinati de conditute ceja, ej=0 e; >= / , e; > + a; / (e; //2 0= < 2: $Q_{i} = -\frac{1}{4} \frac{1}{4} \frac{1$ 12 1 en . - Lier 3 = phen - en fier en = 17 1 en -- 0 in field = 17 fame





* OBSV: 4 x x y, x > = < x x y, y > = 0 * x y 1 x , * x y 1 y X x y 20 40 20 = x y *OBSV: < x x y , x x y >= 1/2 x y 1/2 > 0 De la fel orientata a borso comonica. Farantera despre orientare: B, B & unt la fel orientale daca motricea de trecure dintre ele are det >0 In R o bosto se sumeste positivorientata da a se schi 1/2 # OBSV: // 2xy / = //2/12 //y//2 < x, y = = 112 112 112 112 112 112 112 112 112 = ((\frac{12}{2} \cdot \frac{1}{2} \cdot \frac{1

