```
1) S = 1 p e P2 (IR): p(1) = 0, p(0)= 31 en un suberpació de P2 (18)
                        P(x): Q + Q, x + Q, x & P2 (IR)
                                        00 = 0, = 02 = 0
                                         pexi = 0 (polinomio nulo)
                                         5, x = 1 = 0 + 0(0) + 0(0)^2 = 0
                                         5; x = 0 => 0 +0(0) +0(0)2 = 0
                                        701 tanto 5 no en un suberpacio vectorial de ?2 (12)
 2) El sub conjunto U = 1 p(x) & P3(1R): p(1) = 1 t en un sub espacio vedorial de P3 (1R)
                       PCX): 00+01x+02x2103x3 EP3(12)
                                         00 = 01 = 02 = 03 = 0
                                         pas = 0 (polinomio vulo)
                                         Si x = 1 => 0 + 0(0) + 0(0)2 + 0(0)3 = 0 # 1
                                        por tanto U no en un subespacio vectorial de ?, (12)
 3) El subconjunto de 123, 7(1,1,0), (0,-1,-1), (1,0,-1) Féer line al monte de pendiente?
                         Sean a, B, & Lal que:
                                              (a, a, o) + (b(o, -a, -a) + o(a, o, -a) = (o, o, o)
                                              (x + 8, x - B - B - 8) = (0,0,0)
                                                                                                                                                                                                                    1010
                                                                                                                                                                                                                         0 -1 -1 0
                                                                                                                                                                                                                        0000
                                                                                                                                                                                                                           Rang(A)=2
                                                                                                                                                                                                                             Prang(A:b)=2 < 3
                                                                                                                                                                                                                             tiene infinitus soluciones
                                                                                                                                                                                                                            N, B, Y EIR
                                                                                                                                                                                                                            al menos 1 no n O.
4) (1 subconjunto de 123, 3(2,0,1),(1,-1,1),(0,3,-2)(2n l.i)
                 Sean x, B, 8 tal que
                                  x(2,0,1)+B(1,-1,1)+8(0,3,-2) = (0,0,0)
                                      2x + B = 0 (=) \begin{pmatrix} 2 & 1 & 0 \\ 0 & -1 & 3 \\ 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 3 \\ 0
                                                                                                                                               -1 2 0 3 2 1
                                                                                                                                                          4-3-1+0 (2)
```