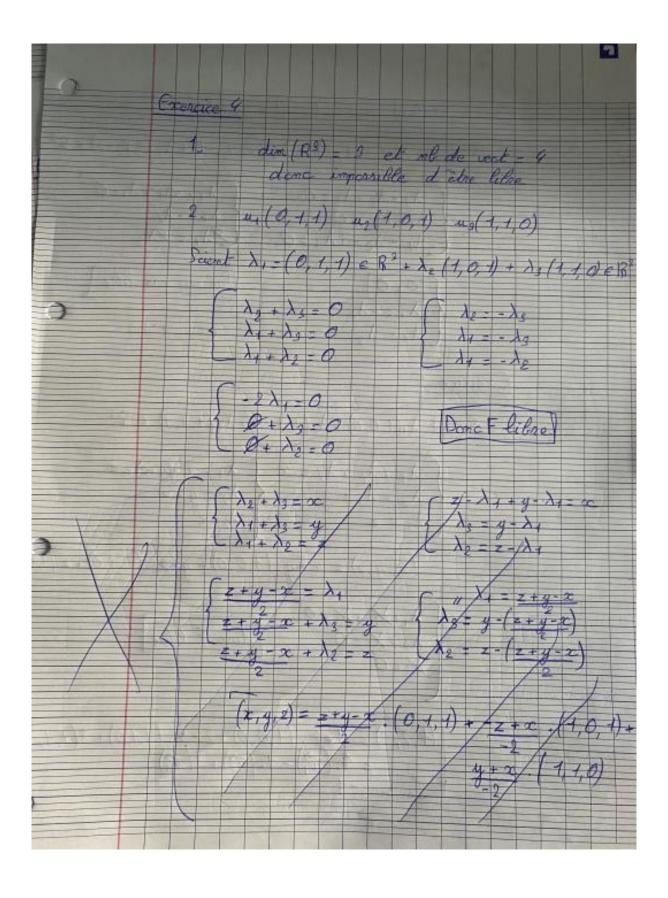


 $B = \{(x, y) \in \mathbb{R}^2 \mid (x + y) \mid \frac{1}{2}\}$ $0 \neq 13$ can $(0 + 0) \neq 1$ (done 13 m est pas um sex) Exercise 2 C= {(x,y,z) = R 1 x+y = Q et y + z = 0} (-1, 1, -1) est une (x, y, z) - (-y, y, -y) Sa dimension out R3 => 1 (2, y, 2) = y. (-1, 1, -1) Exercice 3 MACH STORY (4.02) 10,00 (105) 1 1939 1. { (0,10), (1,0,0), (0,0,1) 3, (0,4,8)} 2 [(0,0) (4,0)]



3 4, (1,1,1) 4, (2,1,-1) 4, (1,0,-3) Scient X1 (1,1,2) + 2 (2,1,-1) + 2 (1,9,-8) & B Par ma par libre Exercice 5 Scient 2,(1,0,0) + 2,(1,1,0) + 2,(1,1,1) & R $\begin{cases} \lambda_1 + \lambda_2 + \lambda_3 = \infty \\ \lambda_2 + \lambda_3 = y \end{cases} \qquad \begin{cases} \lambda_1 = \infty & \forall y > 2 \\ \lambda_2 = y - 2 \\ \lambda_3 = z \end{cases}$ (x,y,z) = x = y. (1,0,0) + y-z (1,1,0) + z (1,1) 1+1/2 + 2 = 0 done Flibre X2=0 (1 2, 3) = 1 = 2. (1,0,0) + 2 = 3. (1,1,0) + 3(1,1,1) = 3. (1,1,1) - 1. (1,1) + 3(1,1,1)

Esercice 6 R 2 > R. (x,y) > (x+y, x+y) Front a (x, y,) et & (x2, y2) e f f(a+6) = f(x,+x2,y,+g2) = f(x++y1, x++y1) + (x2+y2, x2+y2) f(a) + f(b) 1= f (a + b) De plus Scient & & R et a (2, y) & F 0 x. f(a) = (x x + xy , x x xy) fest une app lin.

3 u, (1,1,1) u, (2,1,-1) 4, (1,0,-3) Scient 2, (1, 1, 2) + 2 (2, 1, -1) + 2 (1, 0, -3) & R Par ma par libre Exercice 5 Scient 2, (1,0,0) + 2, (1,1,0) + 2, (1,1,1) & RP $\begin{array}{c|c}
\lambda_1 + \lambda_2 + \lambda_3 = \infty \\
\lambda_2 + \lambda_3 = y \\
\lambda_3 = z
\end{array}$ $\begin{array}{c|c}
\lambda_1 = \alpha & (y > 2) + \alpha \\
\lambda_2 = y - z \\
\lambda_3 = z
\end{array}$ (x,y,z) = x = y. (1,0,0) + y-z (1,1,0) + z (1,1) 11+22+23=0 Idone Flibre X2=0 $(1,2,3) = 1.52 \cdot (1,0,0) \cdot 2 \cdot 3 \cdot (1,1,0) + 3(1,1,1)$ = $\frac{3}{2} \cdot (1,0,0) \cdot 2 \cdot 3 \cdot (1,1,0) + 3(1,1,1)$