Lesson 1-1 11 llerregolome ma unerryro jabucumocome. $f_1(x) = e^x$, $f_2(x) = 1$, $f_3(x) = x + 1$, $f_4(x) = x - e^x$ $f_{H}(x) = f_{3}(x) - f_{2}(x) - f_{1}(x)$ $f_{R}(x) = f_{3}(x) - f_{2}(x) - f_{1}(x)$ $f_{R}(x) - f_{2}(x) - f_{3}(x)$ $f_{R}(x) - f_{3}(x) - f_{3}(x)$ Brokeim bennopa université jabuenne 12. Uceuegobamo na umeningro jabucumoemo. $f_1(x) = 2, f_2(x) = x, f_3(x) = x^2, f_4(x) = (x+1)^2$ fy(X)=(X+1) = X2+2x+1 x2+2x+1=x2+2x+1.2 $f_4(x) = f_3(x) + 2f_2(x) + \frac{1}{2}f_1(x)$ fy(x) - illheunai homouniayent beamopob fi(x), fz(x) u f3(x) Busium bennope unientro jabuculle. 13. Hournes koopgunamie bennopa x=(2,3,5) EIR3 6 dayure b1=10,0,10), b2=(2,0,0), b3=(0,1,0) $X = (2,3,5) = (2,0,0) + (0,3,0) + (0,0,0) = (2,0,0) + 3(0,1,0) + \frac{1}{2}(0,0,0) = (2,0,0) + 3(0,1,0) + \frac{1}{2}(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) + 3(0,0,0) = (2,0,0) = (2,0,0) + 3(0,0,0) = (2,$ $= b_2 + 3b_3 + \frac{1}{2}b_1$ $X = (2.3.5) = b_2 + 3b_3 + \frac{1}{2}b_1$ To eans noopganamaille beumopa X 6 imangapmuou Toque ebilesonce 2,1,3. N4. Hanny hoopgunamin bennopa 3x2-2x+2 EIR3[x]: a) 6 bapuce 1, x, x? Cocmabine 40-1111 Q.1+6.X+C.X2=3x2-2x+2 Q=2,6=-2,C=13,1 6) 5 daque x2, x-1, 1 a = 3 b = -2 c = 0Q. X2 + b(x-1) + C-1 = 3x2 - 2x + 2 C-b=2 C=2+b=2-2=0 (0) x2+6x-b+C=3x2-2x+2xC-b= 2x (=)+k=0-7=0

N5. Gemanobumb, ebuience in uneurien nogripoetpanerbay a) cobonynhoens been bennopob impermeption proempanento y romposition ho upartient mere agree y reptient gbys roopgiment pablic myrro Jes bennoph, abrierougued minuritaire hours hours fina.

```
Lesson 1-2
 11. Moumu ensueprise répaiglégéereil 26 bennapob
   a) X = (0, -3, 6), y = (-4, 7, 9)
      (x,y) = 0 \cdot (-4) + (-3) \cdot 7 + 6 \cdot 9 = 0 - 21 + 54 = 33
    (x) = (7, -4, 0, 1), y = (-3, 1, 11, 2)
      (X, y) = 7 \cdot (-3) + (-4) \cdot 1 + 0 \cdot 11 + 1 \cdot 2 = -21 - 4 + 2 = -23
 il 2. Howmu mopellir bennopob (4,2,4) 4 (12,3,4) u gion u/y mullin
works: \|X\|_{1} = |4| + |2| + |4| = 60 \|y\|_{1} = |12| + |3| + |4| = 19 ebun. \|X\|_{2} = \sqrt{4^{2} + 2^{2} + 4^{2}} = \sqrt{36} = 6 \|y\|_{2} = \sqrt{12^{2} + 3^{2} + 4^{2}} = \sqrt{144 + 9} + |6| = \sqrt{169} = 13
       \cos \varphi = \frac{4 \cdot 12 + 2 \cdot 3 + 4 \cdot 4}{6 \cdot 13} = \frac{48 + 6 + 16}{78} = \frac{70}{78} = 0.897
N3. Dygen nu nuivellère np-bo ébinigobien, écun ja chonéphol
npourbépance npunier.
     a) répour le benier benier l'entropa (x, y) = |x|·|y|

pa, répu Z = 0, me ne le systé ague beniora magnon remais
     8) ympoennée obvirnée chaméprise ripoujbégénile beoropob
N4. Raine y primeripirencultures leuropob apagy not apronapin-un
(1,0,0), (0,0,1) - HET, M. N. HET TPETBERO EQ-010 BENTOPA

8) (1/12,-1/12,0), (1/12,1/12,0), (0,0,1) - HET
 (b) (1/2,-1/2,0), (0,1/2,1/2), (0,0,1): - HET, M.K. gnunu He, 1'
  2) (1,0,0), (0,1,0), (0,0,1) - Eague opronopill-mi
```