Soluzioni dei compiti & 3

$$\begin{array}{lll}
(a) & L(x) = p + \pm (n-p) \\
&= (1,2,3) + \pm (123,5) - (1,2,3)) \\
&= (1,2,3) + \pm (1,1,m)
\end{array}$$

$$= (1,2,3) + ±(1,1)$$

$$= (0,1,1)?$$

$$1+x=0 \implies x=-1$$

: (0,1,1) Now e' su questa linea.

(2.2)
$$L(x) = p + x = (1,1,1) + x(1,2,3)$$

(2b)
$$1+3\% = 0 \implies \pm = -1/3$$

 $L(-1/3) = (1-1/3, 1-2/3, 0) = (4/3, 1/3, 0)$

$$(=) \quad X(x) + y(x) + Z(x) = 0$$

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$$\Rightarrow x = 2$$

$$L(2) = (-1, 2, -1)$$

$$\begin{array}{lll}
\boxed{4} & \boxed{X(S, t)} &= p + S(q - p) + x + (r - p) \\
&= (G, G, G) + S((8, t, c) - (G, G, C)) \\
&+ t + (19, 3, 1) - (G, G, G) \\
&= (G, G, G) + S(2, -2, G) + t + (3, -3, 1) \\
&= (x(S, t), y(S, t), z(S, t))
\end{array}$$

$$\begin{pmatrix} 1 & -1 & 1 & D \\ -1 & 1 & -1 & D \\ 1 & 0 & -1 & D \end{pmatrix} \rightarrow \begin{pmatrix} 1 & 0 & -1 & D \\ 0 & 0 & 0 & D \\ 1 & 0 & -1 & D \end{pmatrix}$$

$$\longrightarrow \begin{pmatrix} 1 & -1 & 1 & P \\ 0 & 1 & -2 & P \\ 0 & 0 & 0 & 2D \end{pmatrix}$$
 $(D = 0)$

$$B-2C=0 \Rightarrow B=2C$$

$$A - B + C = A - C = C \Rightarrow A = C$$

$$(A, B, c) = c(1, -2, 1)$$

$$(1,2,-1): (\frac{1}{2})(1) + (\frac{1}{2})(-2) + (0)(1) = 1$$

$$C = (2,5)$$

$$C = (3,3) - (-1,2) = (4,1)$$

$$C = (3,3)$$