Problema 1

©
$$(1,1,2,3)+(1,2,3,5)=(2,3,5,8)$$

© $2(1,2,4,8)+(1,3,7,15)=(2,4,8,16)+(1,3,7,15)$
 $=(3,7,15,31)$

Problema 2

(a)
$$3(x, 4, 2, 2) + (1, 4, 16, 25) = (4, 16, 4, 16)$$

$$= 3(x, 4, 2, 2) + (1, 4, 16, 4, 16) - (1, 4, 16, 25)$$

$$= (3, 12, -12, -9)$$

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

(b)
$$2(x, y, 7, 2) \neq (-1, 2, 2, -1) = (1, 2, 2, 1)$$

$$\Rightarrow 2(x, y, 7, 2) = (1, 2, 2, 1) - (-1, 2, 2, -1)$$

$$= (2, 0, 0, 2)$$

$$\Rightarrow (x, y, 7, 2) = \frac{1}{2}(2, c, c, 2) = (1, 0, c, 1)$$

Problema 3:

S	1+1	91	f+9	f-29
Napol;	3	1	4	
Roma	2	2	4	-2
Pisa	1	3	4	-5

Problem 4

Problema 5

©
$$3 \times + 2 y = 1$$
 $\frac{3 \times + 2 y = 1}{12 \times + 3 y = -1}$ $\frac{3 \times + 2 y = 1}{12 \times + 3 y = -1}$ $\frac{3 \times + 2 y = 1}{12 \times + 2 y = 1}$ $\frac{3 \times + 2 y = 1}{12 \times + 2 y = 1}$ $\frac{3 \times + 2 y = 1}{12 \times + 2 y = 1}$ $\frac{3 \times + 2 y = 1}{12 \times + 2 y = 1}$ $\frac{3 \times + 2 y = 1}{12 \times + 2 y = 1}$

Problema 6

$$G = \begin{pmatrix} 1 & 2 \\ 2 & +1 \end{pmatrix} \begin{pmatrix} 1 \\ -1 \end{pmatrix} = \begin{pmatrix} 1-2 \\ 2-1 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$

$$G \begin{pmatrix} 1 & 3 \\ 2 & 1 \end{pmatrix} \begin{pmatrix} 1 \\ -2 \end{pmatrix} = \begin{pmatrix} 1-6 \\ 2-2 \end{pmatrix} = \begin{pmatrix} -2 \\ c \end{pmatrix}$$

Problema 7

(a)
$$det (\frac{1}{3}) = (1)(5) - (2)(3) = -1$$

6 det
$$\binom{2}{3}\binom{1}{2} = (2\times2) - (3)(1) = 1$$

Problema 8

$$dut \left(\begin{array}{c} 1-t & 3 \\ -1 & 5-x \end{array} \right) = (1-t)(5-t) + 3$$

$$= 5 - 6t + t^2 + 3 = t^2 - 6t + 8$$

$$= (t-2)(t-1)$$

$$(t-2)(t-1) = 0 \implies t=2, t=4$$