

# Serie 7

1.) a) 
$$\begin{pmatrix} 20 & 10 & 0 \\ 50 & 30 & 20 \\ 100 & 150 & 100 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 150 \\ 470 \\ 2150 \end{pmatrix}$$

C	B	A		
0	10	20	150	: 10
20	30	50	470	: 10
100	150	200	2150	: 10
2	3	5	47	
0	1	2	15	
10	15	20	215	IV - 5 I
2	3	5	47	
0	1	2	15	
0	0	-5	-20	I: -5
2	3	5	47	
0	1	2	15	
0	0	1	4	

$A = \underline{\underline{4}}$

$B = x_2 + 8 = 15 \rightarrow \underline{\underline{7}}$

$C = 2x_3 + 21 + 20 = 47 \rightarrow \underline{\underline{3}}$

b)  $120 : 10 = 12$

$350 : 10 = 35$

$1600 : 10 = 160$

$160 - 5 \cdot 35 = -15$

$-15 : -5 = 3$

$A = \underline{\underline{3}}$

$B = x_2 + 6 = 12 \rightarrow \underline{\underline{6}}$

$C = 2x_3 + 16 + 15 = 35 \rightarrow \underline{\underline{1}}$