6 1/2 — Foglio w
1) Disequazioni 2/3
2) Sistemi di equazioni (Metodo del confronto)
3) Sistemi di equazioni Come vi pare
4) Problemini / 2
5) quesiti 3 ~~ Goniometria
+ Spicy

Es 461 pag 417

$$\begin{cases}(a-1)x+y=1\\(a+2)y-2x-1=0\end{cases} \rightsquigarrow \begin{cases}(a-1)x+y=1\\-2x+(a+2)y=1\end{cases}$$

$$Det(D) = (a-1)(a+2) - 1(-2) = a^2-a+2a-2+2 = a^2+a = a(a+1)$$
$$Det(D_x) = 1(a+2) - 1\cdot 1 = a+2-1 = a+1$$
$$Det(D_y) = (a-1)\cdot 1 - 1(-2) = a-1+2 = a+1$$

$$x = \frac{Det(D_x)}{Det(D)} \qquad y = \frac{Det(D_y)}{Det(D)}$$

Vanno bene solo se $Det(D) \neq 0$ cioè $a(a+1)\neq 0$ cioè $a\neq 0$, $a\neq -1$

Se $a \neq 0, -1$

$$x = \frac{a+1}{a(a+1)} = \frac{1}{a}$$
$$y = \frac{a+1}{a(a+1)} = \frac{1}{a}$$

} Determinato

Caso $a=0$: $\begin{cases}-x+y=1\\-2x+2y=1\end{cases} \rightsquigarrow \begin{cases}-2x+2y=2\\-2x+2y=1\end{cases}$ Impossibile

Caso $a=-1$ $\begin{cases}-2x+y=1\\-2x+y=1\end{cases}$ Indeterminato

$$\begin{cases} 3x+15y-15z+25=0 \\ 12x-12=2y-15z \\ 9x+2y+12z=6 \end{cases} \qquad \begin{cases} 3x+15y-15z=-25 \\ 12x-2y+15z=12 \\ 9x+2y+12z=6 \end{cases}$$

$$\begin{cases} 6x+15(2y)-30z=-50 \\ 12x-6+9x+12z+15z=12 \\ 2y=6-9x-12z \end{cases}$$

$$\begin{cases} 21x+27z=18 \\ -129x-210z=-140 \end{cases} \qquad \begin{cases} 7x+9z=6 \\ 129x+210z=140 \end{cases} \Rightarrow z=\frac{6-7x}{9}$$

$$129x+\frac{70}{\cancel{210}\,(6-7x)}{3}=140$$

$$(129\cdot 3-490)x=\underbrace{140\cdot 3-6\cdot 70}_{=0} \qquad \Rightarrow -103x=0 \Rightarrow x=0$$

BRUTTA