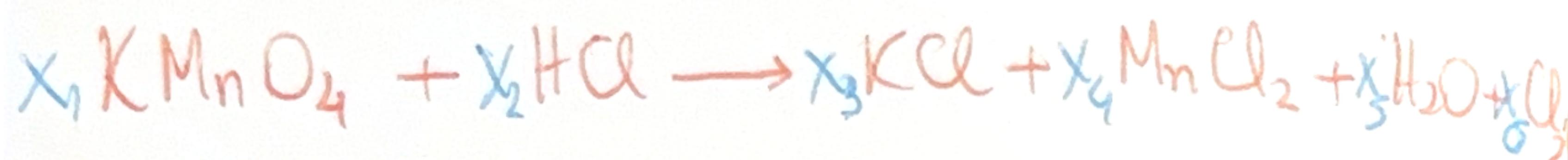


oops... usei a contracapa.



$$\cancel{x_1} \quad \cancel{x_2} \quad \cancel{x_6}$$

$$\text{K: } x_1 = x_3$$

$$\text{Mn: } x_1 = x_4$$

$$\text{O: } 4x_1 = x_5 \Rightarrow$$

$$\text{H: } x_2 = 2x_5$$

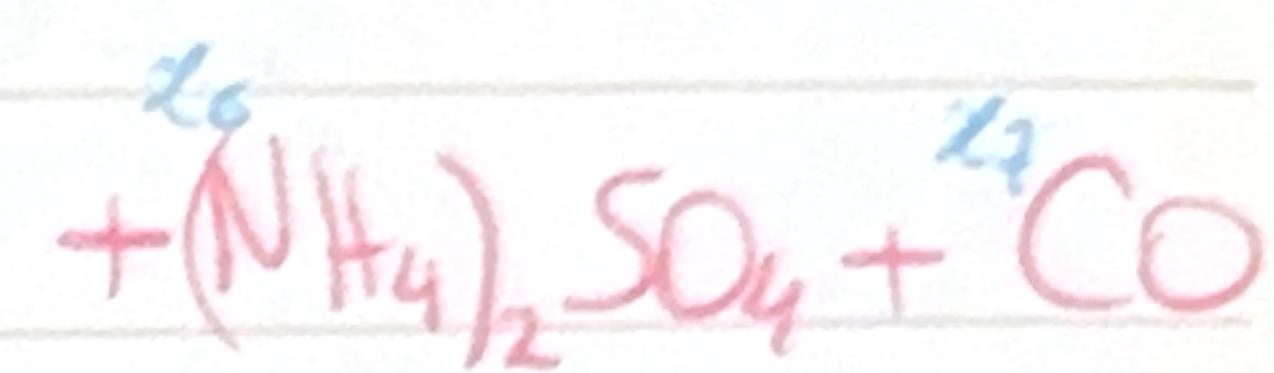
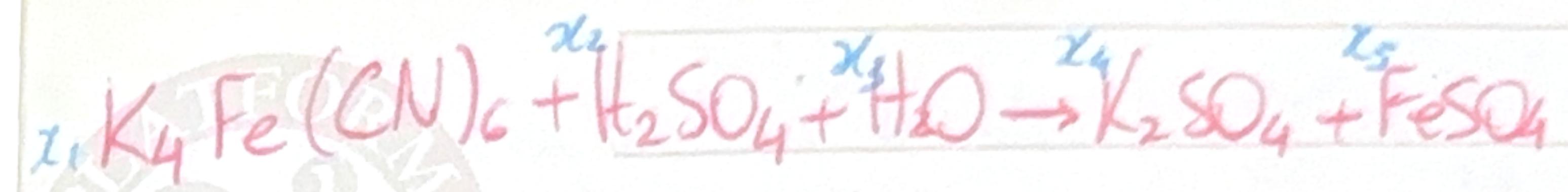
$$\text{Cl: } x_2 = 2x_6 + x_3 \\ + 2x_4$$

$$\left[\begin{array}{cccccc} 1 & 0 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 & 0 \\ 4 & 0 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -2 & 0 & -2 \end{array} \right] \left[\begin{array}{c} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \\ x_6 \end{array} \right] = \left[\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \right]$$

$$x_1 \cdot 158,03 + x_2 \cdot 36,46 = x_3 \cdot 74,55 + x_4 \cdot 125,84$$

$$+ x_5 \cdot 18,01 + x_6 \cdot 70,91$$

Consegui resolver normalizando: dividindo a L6 por 158,03 (~~mas não era necessário~~) e dividindo as respostas por -15638. Obtive: $\begin{matrix} x_1 & x_2 & x_3 & x_4 & x_5 & x_6 \\ 18 & 1 & 4 & 25 \end{matrix}$



$$\text{K: } 4x_1 = 2x_4$$

$$\text{Fe: } x_1 = x_5$$

$$\text{C: } 6x_1 = x_7$$

$$\text{N: } 6x_1 = 2x_6$$

$$\text{H: } 2x_2 + 2x_3 = 8x_6$$

$$\text{S: } x_2 = x_4 + x_5 + x_6$$

$$\text{O: } 4x_2 + x_3 = 4x_4 + 4x_5 + 4x_6 + x_7$$

$$x_1 \ x_2 \ x_3 \ x_4 \ x_5 \ x_6 \ x_7$$

$$\left[\begin{array}{ccccccc} 4 & 0 & 0 & -2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & -1 & 0 & 0 \\ 6 & 0 & 0 & 0 & 0 & 0 & -1 \\ 6 & 0 & 0 & 0 & 0 & -2 & 0 \\ 0 & 2 & 2 & 0 & 0 & -8 & 0 \\ 0 & 1 & 0 & -1 & -1 & -1 & 0 \\ 0 & 4 & 1 & -4 & -4 & -4 & -1 \end{array} \right] \left[\begin{array}{c} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \\ x_6 \\ x_7 \end{array} \right] = \left[\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \right]$$

$$\mathbf{x} = (1, 6, 6, 2, 1, 3, 6)$$

DESAFIO

Há normalizar a resposta final. Multipliquei o vetor resposta por 4000 e obtive os #s acima.