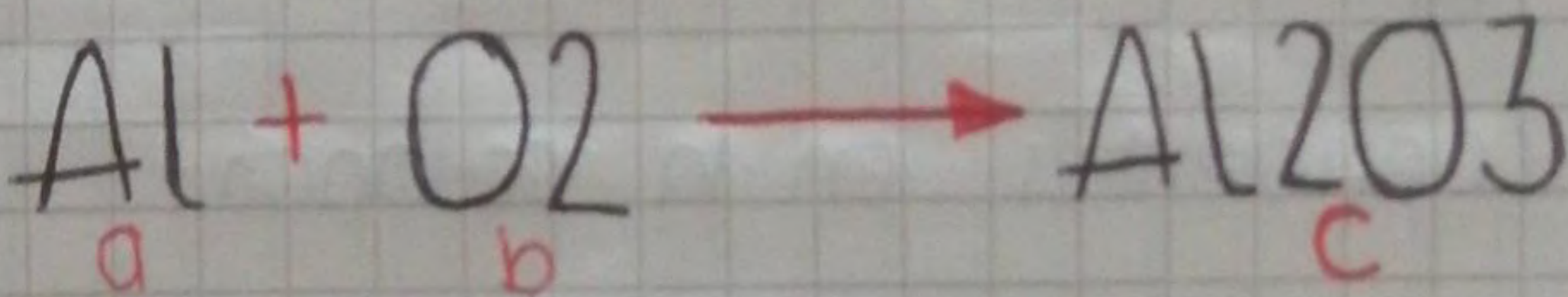


BALANCEO POR METODO ALGEBRAICO

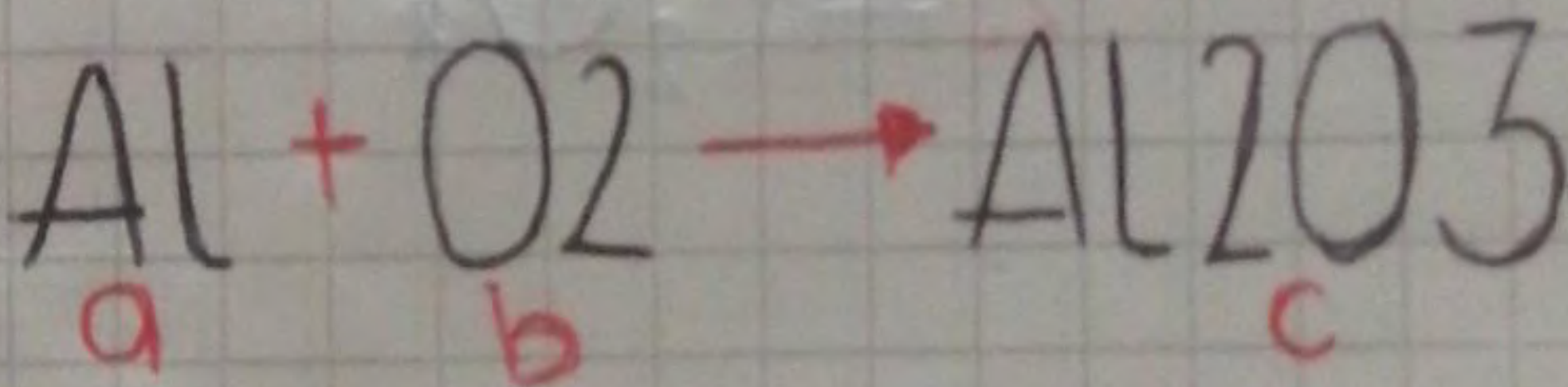
Proposito = Comprender e identificar el procedimiento para balancear una ecuación por el metodo algebraico.

Pasos

- 1 Asignar letras en orden alfabetico a cada especie de la ecuación.



- 2 Enlistar los elementos:



Al

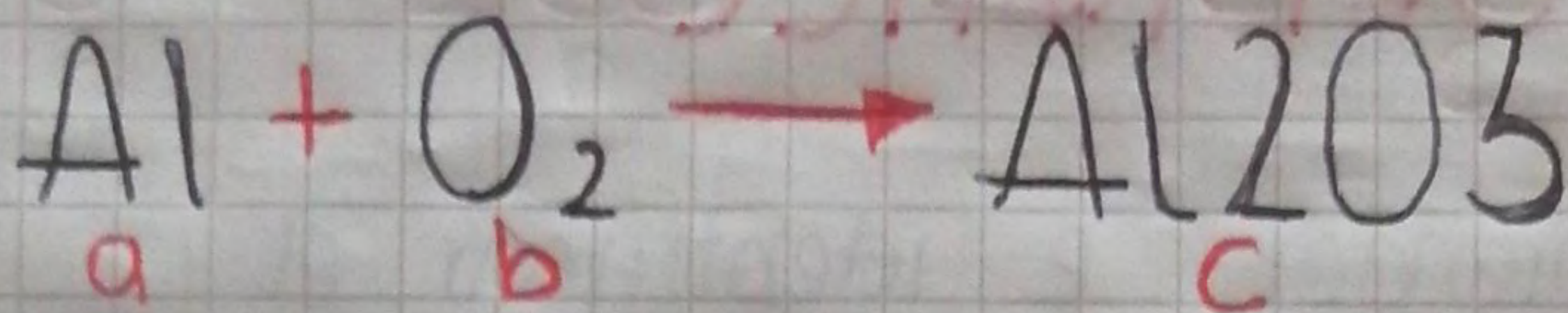
O

- 3 Formar las ecuaciones:

$$Al: a = 2c$$

$$O: 2b = 3c$$

4 Despejar las incógnitas: debes empezar asignando el valor de 2 a la letra que más se repita.



$$\text{Al: } a = 2c$$

$$c = 2$$

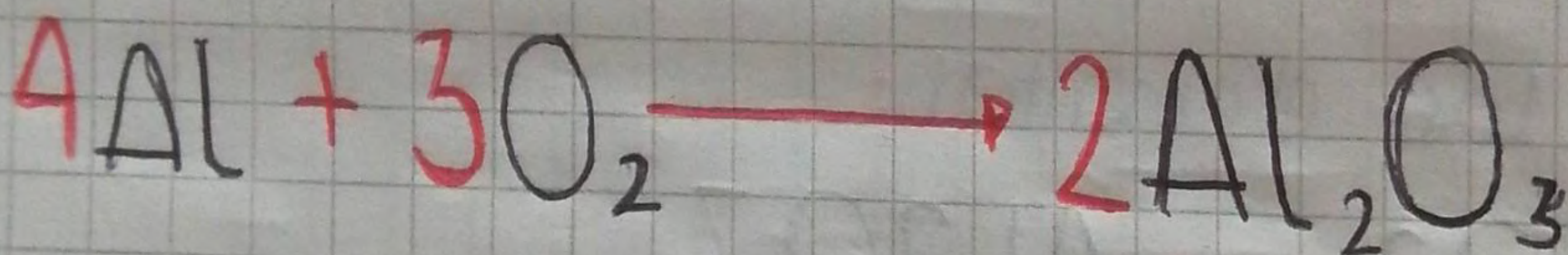
$$\text{O: } \underset{6}{2b} = \underset{6}{3c}$$

$$a = 4$$

$$b = 3$$

$$b = 3$$

5 Ubica los coeficientes en la ecuación:

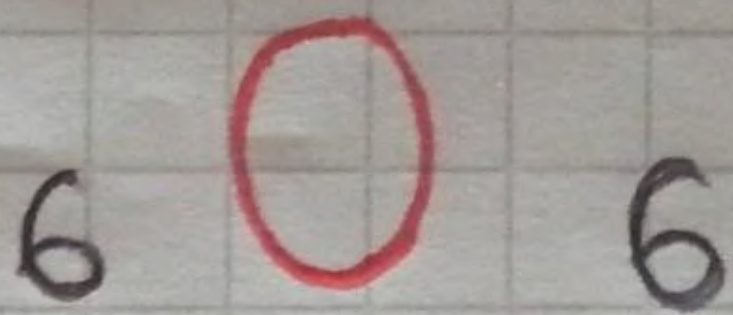
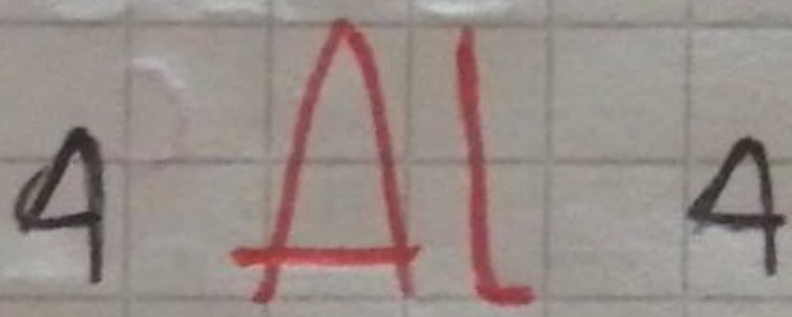
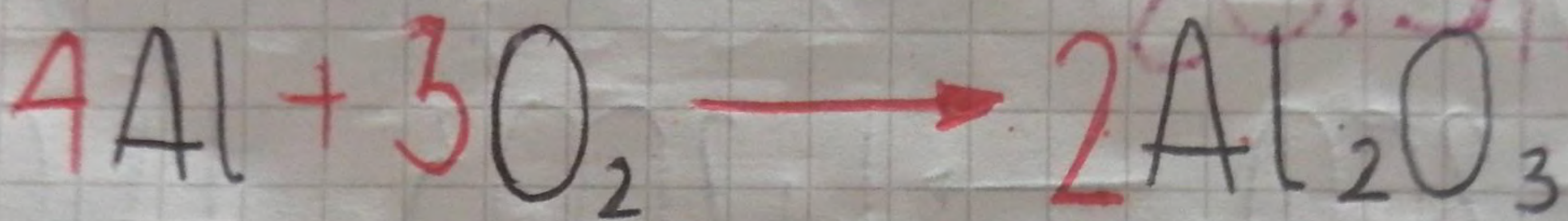


$$c = 2$$

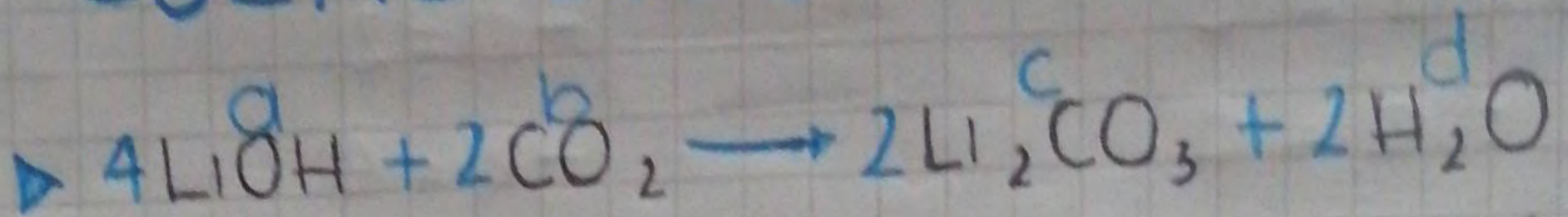
$$a = 4$$

$$b = 3$$

6 verifique que este balanceada



EJERCICIOS



$$-\text{Li} : a = c \cdot 2$$

$$-a = 4$$

$$-\text{C} : b = c$$

$$-b = 2$$

$$-\text{H} : a = d \cdot 2$$

$$-c = 2$$

$$-\text{O} : a + b \cdot 2 = c \cdot 3 + d$$

$$-d = 2$$

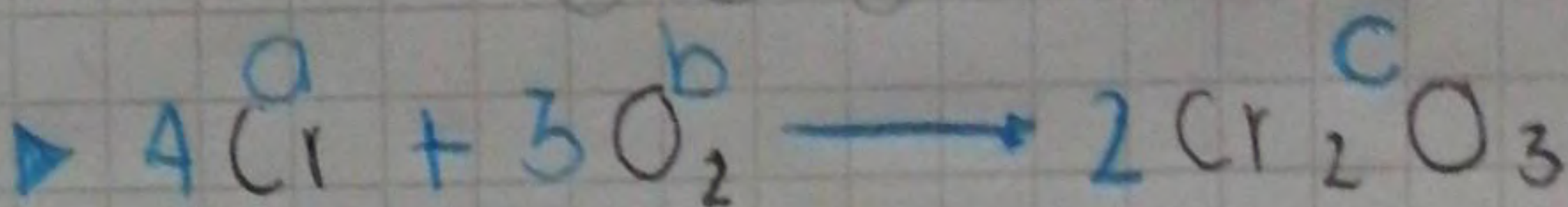
-Balanceo por tanteo =

4 Li 4

2 C 2

4 H 4

8 O 8



$$-\text{Cr} : a = b \cdot 2$$

$$-a =$$

$$-\text{O} : b \cdot 2 = c \cdot 3$$

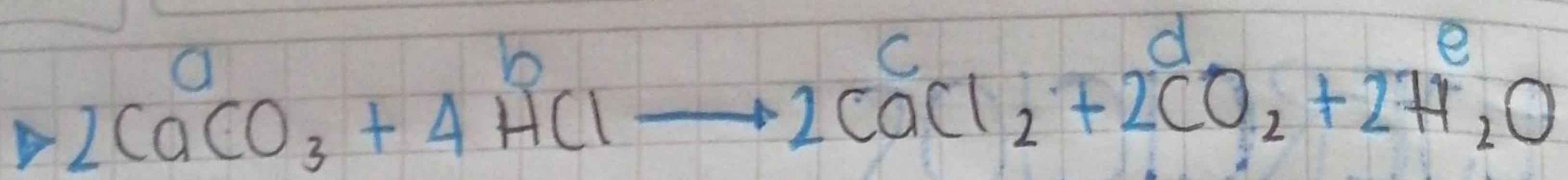
$$-b =$$

$$-c =$$

Balanceo por tanteo =

4 Cr 4

6 O 6



- Ca : $a = c$ - $a = 2$

- C : $a = d$ - $b = 4$

- Cl : $b = c \cdot 2$ - $c = 2$

- H : $b = e \cdot 2$ - $d = 2$

- O : $a \cdot 3 = d \cdot 2 + e$ - $e = 2$

Balanceo por tanteo =

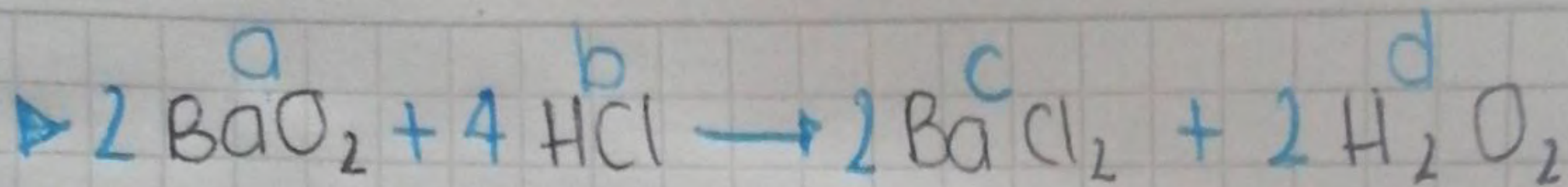
2 Ca 2

2 C 2

4 Cl 4

4 H 4

6 O 6



$$- \text{Ba} : a = c$$

$$- a = 2$$

$$- \text{H} : b = d \cdot 2$$

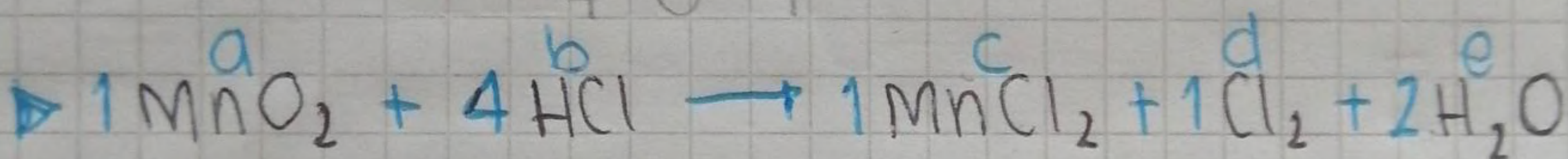
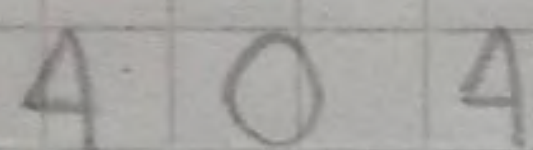
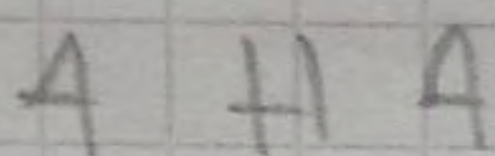
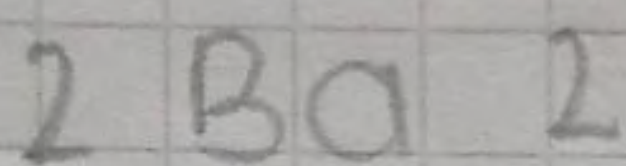
$$- b = 4$$

$$- \text{O} : a \cdot 2 = d \cdot 2$$

$$- c = 2$$

$$- d = 2$$

Balanceo por tanteo =



$$- \text{Mn} : a = c$$

$$a = 1$$

$$- \text{Cl} : b = c \cdot 2 + d \cdot 2$$

$$b = 4$$

$$- \text{H} : b = e \cdot 2$$

$$c = 1$$

$$d = 1$$

$$e = 2$$

Balanceo por tanteo =

