

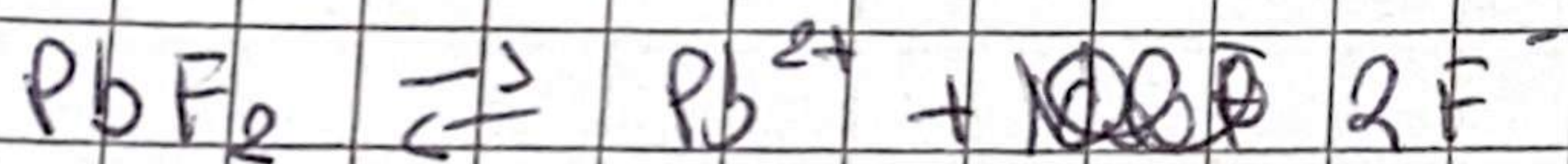
DATI

$$NaF = [2,50]$$

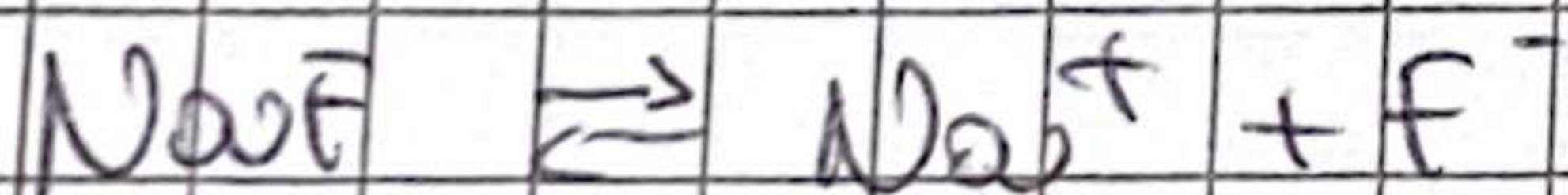
$$K_{ps} PbF_2 = 3,7 \cdot 10^{-8}$$

$$[Pb^{2+}] = ?$$

SUOCCAMENTO



NaF si scioglie completamente in acqua



$$K_{ps} = [Pb^{2+}] [F^-]^2$$

in NaF la concentrazione di Pb^{2+} è data da

$$[Pb^{2+}] = x \text{ e } [F^-]^2 = (2,50 + 2x)^2$$

$$K_{ps} = 3,7 \cdot 10^{-8} = (x) \cdot (2,50 + 2x)^2$$

trascurando $2x$

$$3,7 \cdot 10^{-8} = (x) \cdot (2,50)^2$$

$$3,7 \cdot 10^{-8} = x(6,25) = x = 5,92 \cdot 10^{-9}$$