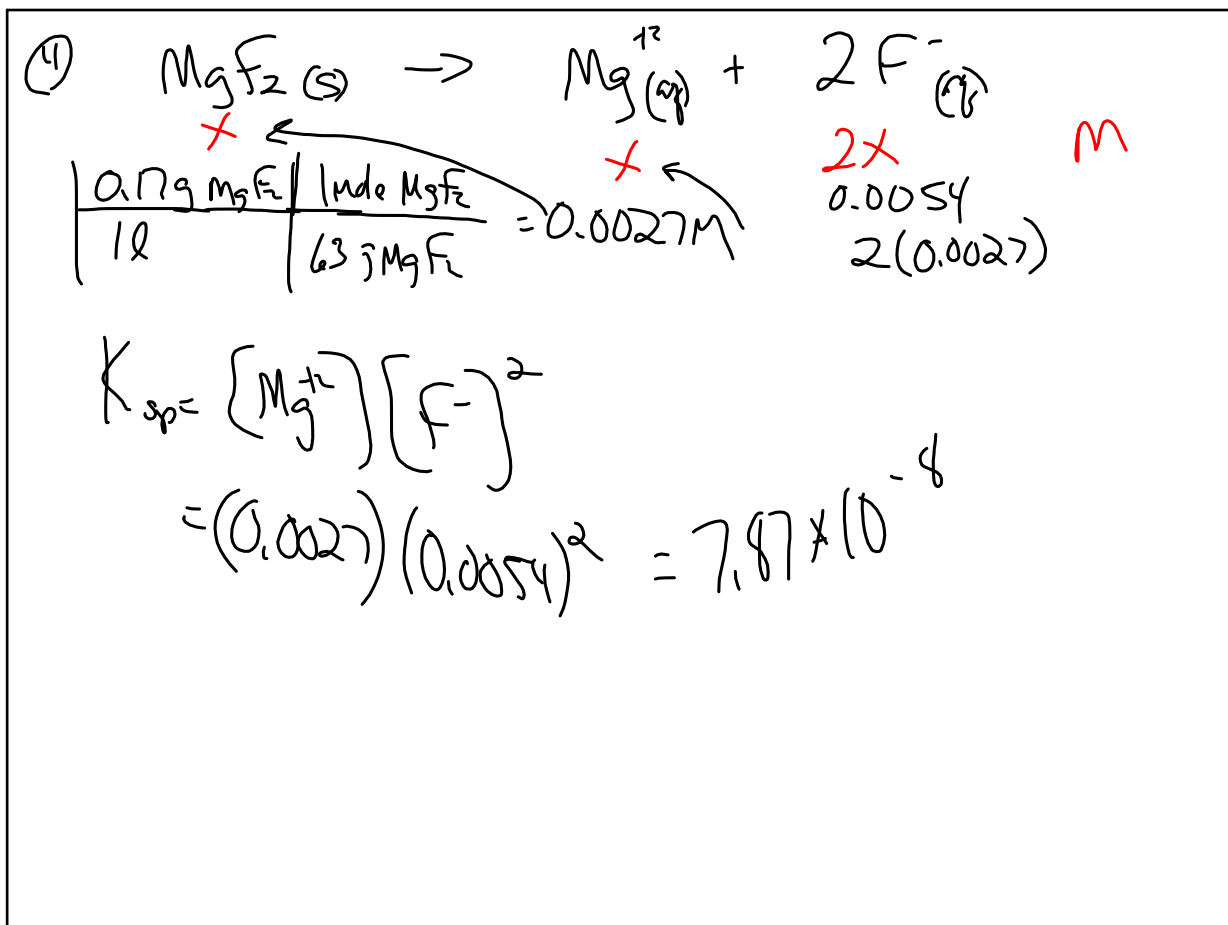


Apr 12-9:21 AM



Apr 12-9:42 AM

⑥ $\overset{24}{\text{Mg}} \overset{24}{\text{C}} \overset{64}{\text{O}_4} (\text{s}) \Rightarrow \text{Mg}^{+2} (\text{aq}) + \text{C}_2\text{O}_4^{-2} (\text{aq})$

~~X~~
~~X~~
~~X~~
M

Fato

$K_{sp} = [\text{Mg}^{+2}] [\text{C}_2\text{O}_4^{-2}]$

$8.6 \times 10^{-5} = (x)(x)$

$\frac{9.3 \times 10^{-3} \text{ moles}}{l} = x$

$9.3 \times 10^{-3} \text{ moles}$	1.2 g	= 1.04 g
l	1 mole	

Apr 12-9:47 AM

Dilution

$\overset{\text{start}}{\text{moles}} = \overset{\text{end}}{\text{moles}}$

$M \times l = M \times l$

$(6M) (100\text{ml}) = (1.2M) (500\text{ml})$

~~$M = \frac{\text{moles}}{l}$~~

moles = $M \times l$

1.2M
~~400ml~~

Apr 12-9:53 AM

$$\Delta T = (K * m) i$$

(Constant) Molality = $\frac{\text{Moles solute}}{\text{Kg Solvent}}$ # ions

MORE

Apr 12-9:56 AM

$$\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g}) + 22 \text{ Kcal}$$

① ↑ Total P. $\text{N}_2(\text{g}) \longrightarrow 2 \text{ mole}(\text{g})$

	$\text{N}_2 \downarrow$	$\text{H}_2 \downarrow$	$\text{NH}_3 \uparrow$	heat ↑
I	2 mole	6 mole	0	0
II	-1	-3 mole	+2 mole	?
III	1 mole	3 mole	?	?

Mole ratio

Apr 12-9:59 AM