

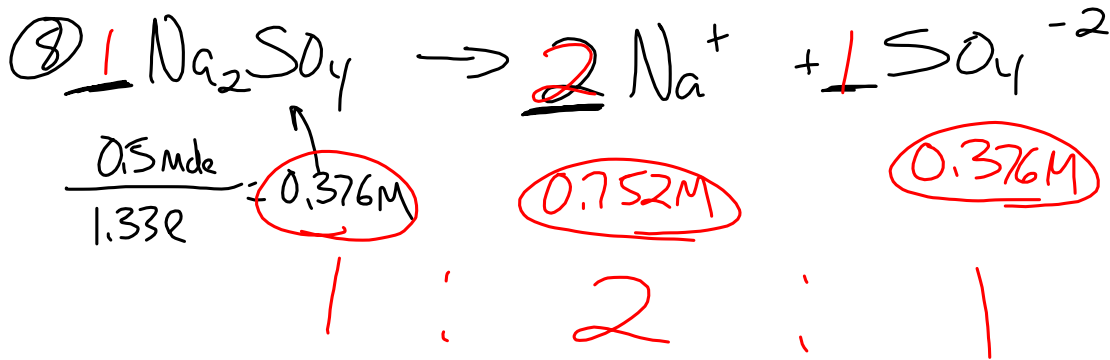
⑥ 500ml 0.3M  $AlBr_3$ . Moles  $Br^-$

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

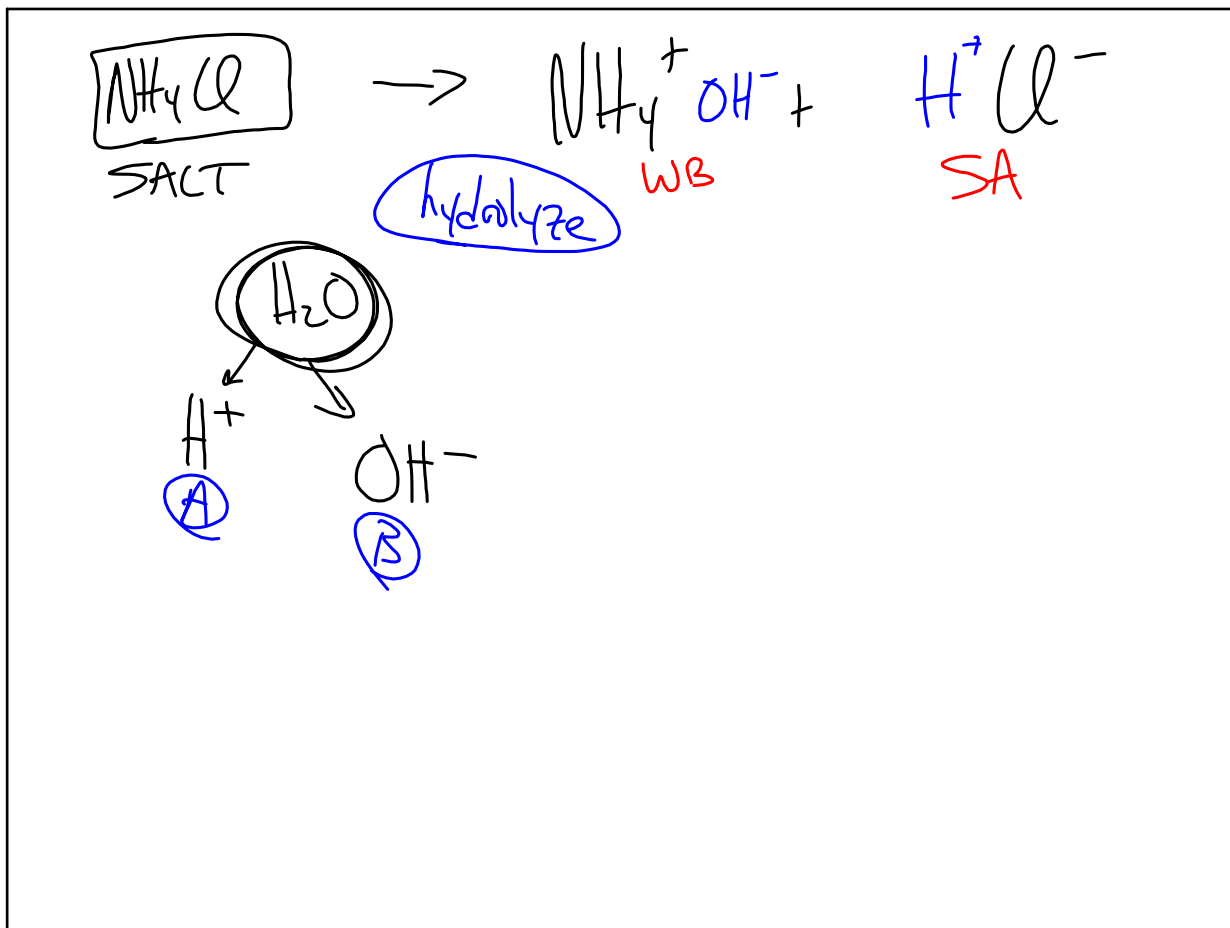
$$\begin{aligned} \text{Moles} &= M \times l \\ &= (0.3)(0.5) \\ &= 0.15 \text{ mole } AlBr_3 \end{aligned}$$



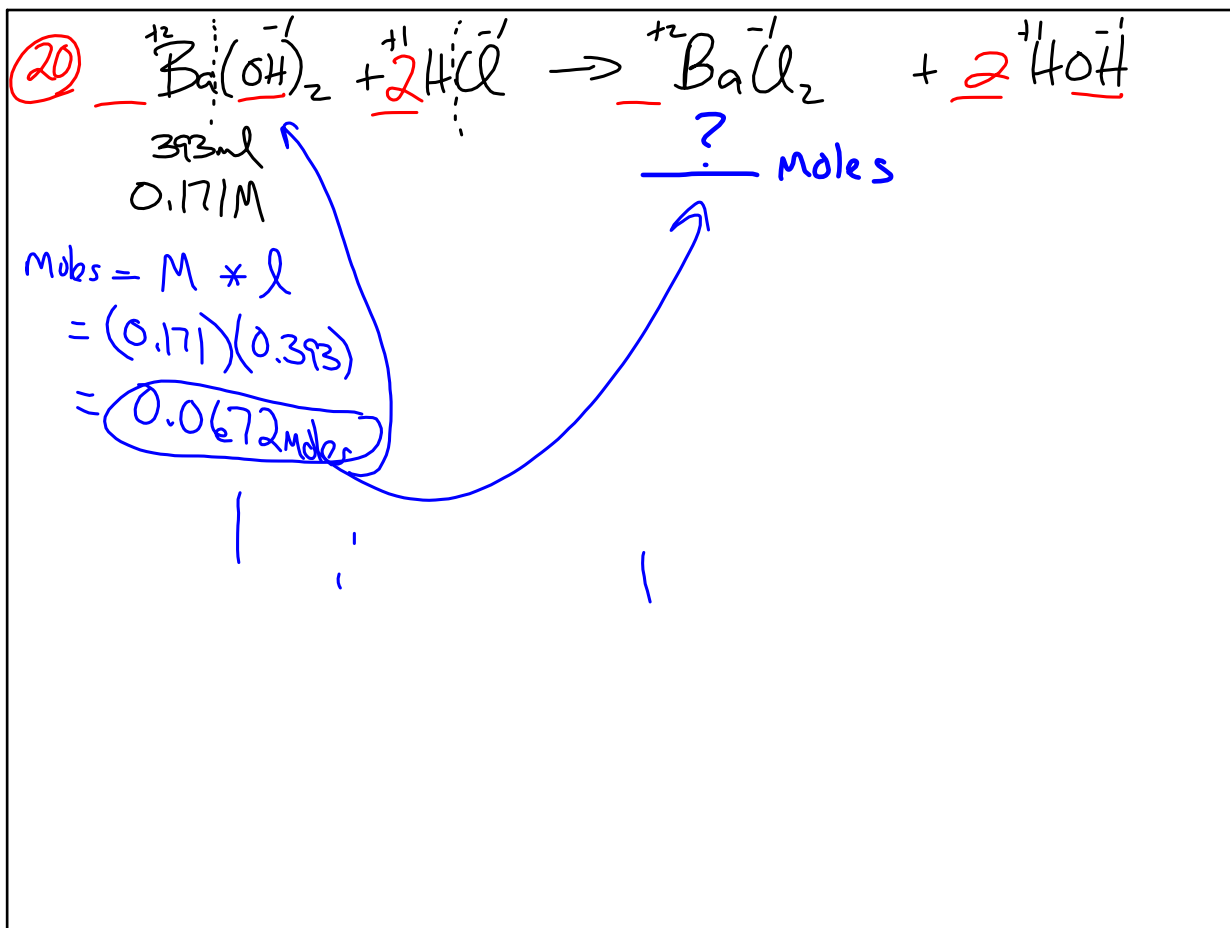
Oct 6-7:40 AM



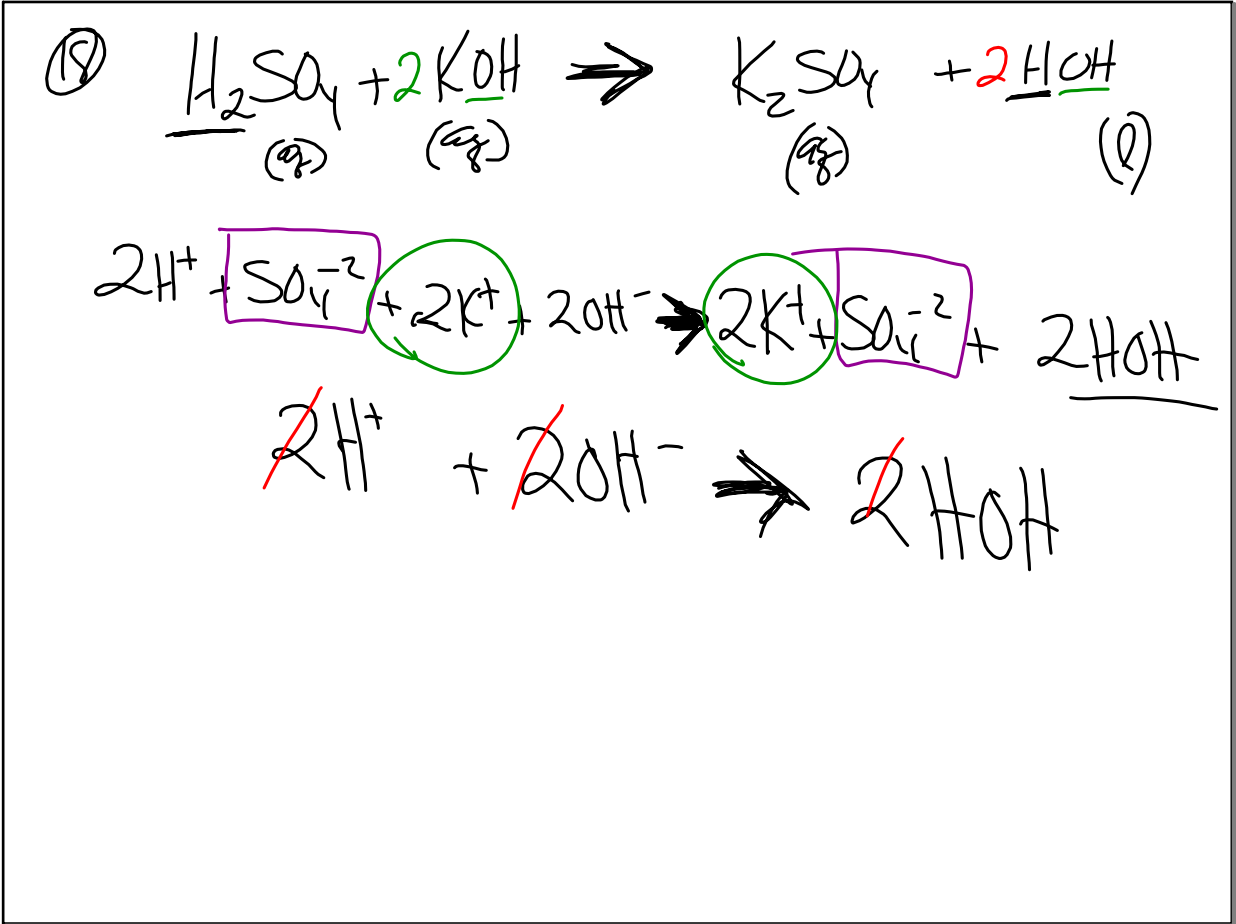
Oct 6-8:04 AM



Oct 6-8:07 AM



Oct 6-8:13 AM



Oct 6-8:21 AM

⑳ OA  $\xrightarrow{9ml \text{ dil}} A \xrightarrow{2ml \text{ dil}} B$  — 9.5 ml B

①  $3.5 \times 10^{-4} M$  in 1 ml

$mols = M \times l$   
 $= (3.5 \times 10^{-4}) (1 \times 10^{-3} l)$   
 $= 3.5 \times 10^{-7} \text{ mols OA}$   
 in 1 ml

$m.l. = \frac{1}{1000} = 10^{-3}$   
 $0.001 l$

②  $3.5 \times 10^{-7} \text{ mols} = \frac{3.5 \times 10^{-7} \text{ mols}}{10 \times 10^{-3} l} = 3.5 \times 10^{-5} M \text{ "A"}$

dilute A to form B  
 $mols A \rightarrow mols B$   
 $m \times l = M \times l$   
 $(3.5 \times 10^{-5})(2) = 7 \times 10^{-6} M (10 ml)$

---

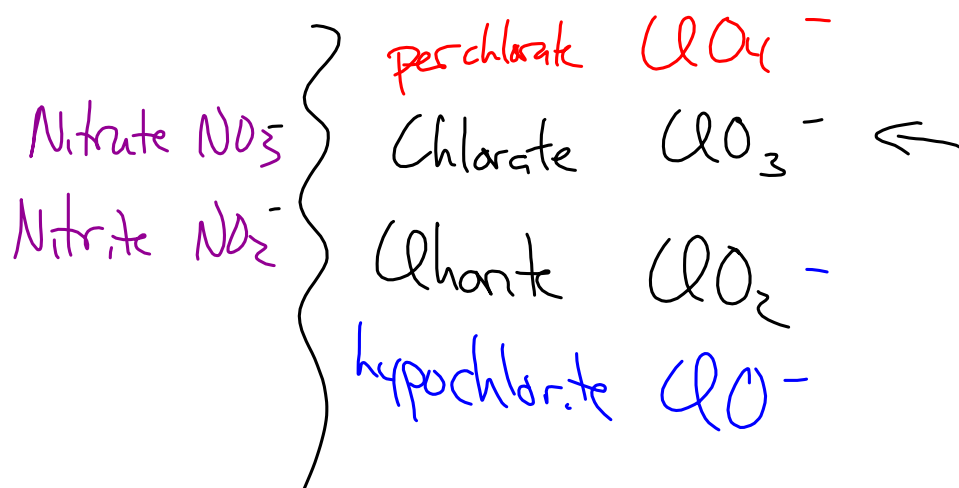
$7 \times 10^{-6} M \text{ "B" in } 10 ml \text{ soln B}$

$mole = M \times l$   
 $= (7 \times 10^{-6}) \times (10 \times 10^{-3})$   
 $= 7 \times 10^{-8} \text{ mols B in } 10 ml$

$\frac{1}{2} \rightarrow 3.5 \times 10^{-8} \text{ mols in } 5 ml$

$\frac{3.5 \times 10^{-8} \text{ mols OA}}{1 \text{ mols OA}} \times \frac{2 \text{ mols OA}}{1 \text{ mols OA}} = 9.87 \times 10^{-6} \text{ B in } 5 ml$

Oct 6-8:38 AM



Oct 6-9:02 AM

$$(15) \quad 0.0507(37.919) + 0.1535(39.017) + 0.7958(42.111)$$

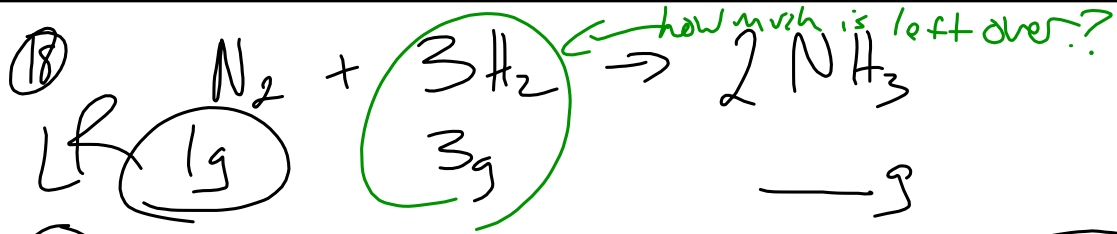
41.4235366

Oct 6-9:05 AM



1.83g HCl	<del>1 mole HCl</del>	1 mole $MnCl_2$	=
	36g HCl	4 mole HCl	
	(36.5)		

Oct 6-9:08 AM



(N <sub>2</sub> )	1g N <sub>2</sub>	1 mole N <sub>2</sub>	2 mole NH <sub>3</sub>	17g NH <sub>3</sub>	=	1.21g NH <sub>3</sub>
		28g N <sub>2</sub>	1 mole N <sub>2</sub>	1 mole NH <sub>3</sub>		

H <sub>2</sub>	3g H <sub>2</sub>	1 mole H <sub>2</sub>	2 mole NH <sub>3</sub>	17g NH <sub>3</sub>	=	17g NH <sub>3</sub>
		2g H <sub>2</sub>	3 mole H <sub>2</sub>	1 mole NH <sub>3</sub>		

Oct 6-9:12 AM