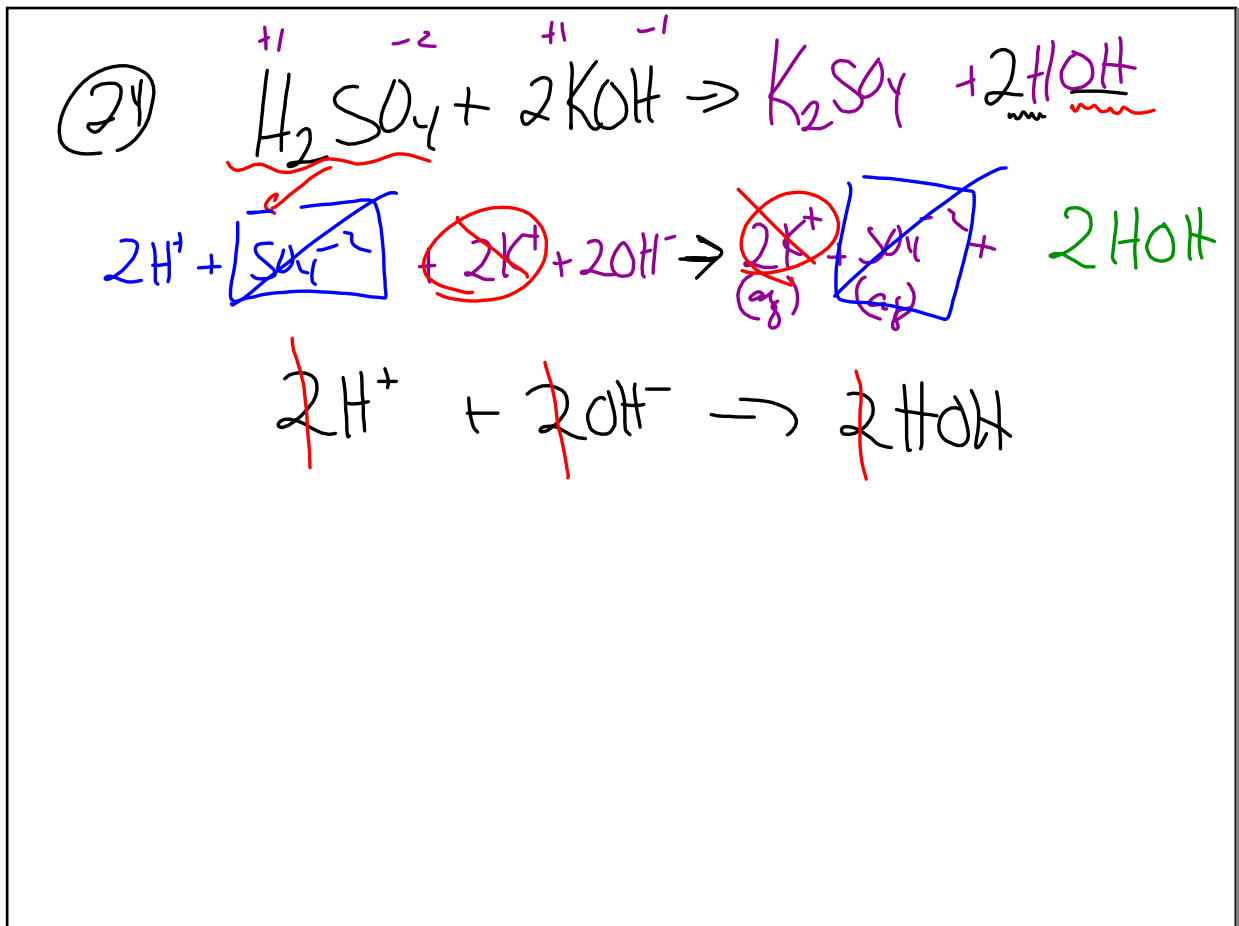


Jan 28-8:10 AM



Jan 28-8:16 AM

25

$\frac{\text{Kg}}{\text{m}^3}$	21.4 g	1 Kg	$\frac{100^3 \text{ cm}^3}{\text{m}^3}$
	cm^3	1000 g	1^3 m^3

26

$$n \sum \text{prod} - n \sum \text{react}$$

$$[-840 + 2(-95)] - [-941 + \phi] =$$

Jan 28-8:21 AM

27

Ⓐ $\text{Na} \quad \text{N} \quad \text{O}_3$

+1 -2

(+1) +5 (-6) = 0

Ⓑ $\text{H} \quad \text{N} \quad \text{O}_2$

+1 -2

+1 +3 -4 = ϕ

Ⓒ $\text{N}_2 = \phi$

Ⓓ NO_2^-

+3 -2 = -1

Ⓔ NH_3

-3 +1 = ϕ

Jan 28-8:26 AM

(31)

20 l O₂
23°C
1 atm

23°C
0.5 atm

ndes ?

$PV = nRT$

$n = \frac{PV}{RT}$

$= \frac{(0.5)(20)}{(0.08206)(296)}$

$= 0.4114$

Jan 28-8:29 AM

(32)

$$2\text{CO}_{(g)} + \text{O}_{2(g)} \rightarrow 2\text{CO}_{2(g)} + \underline{482 \text{ KJ}}$$

89.5 g O ₂	1 mole O ₂	482 KJ	=	1348.1 KJ
32 g O₂	1 mole O₂	1 mole O ₂		

1.348×10^3

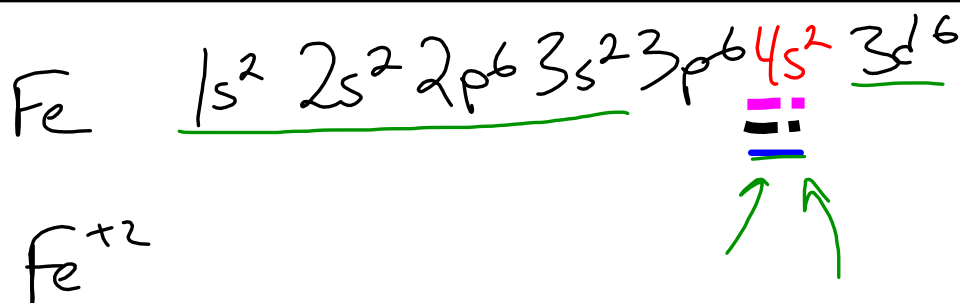
Jan 28-8:34 AM

(33)

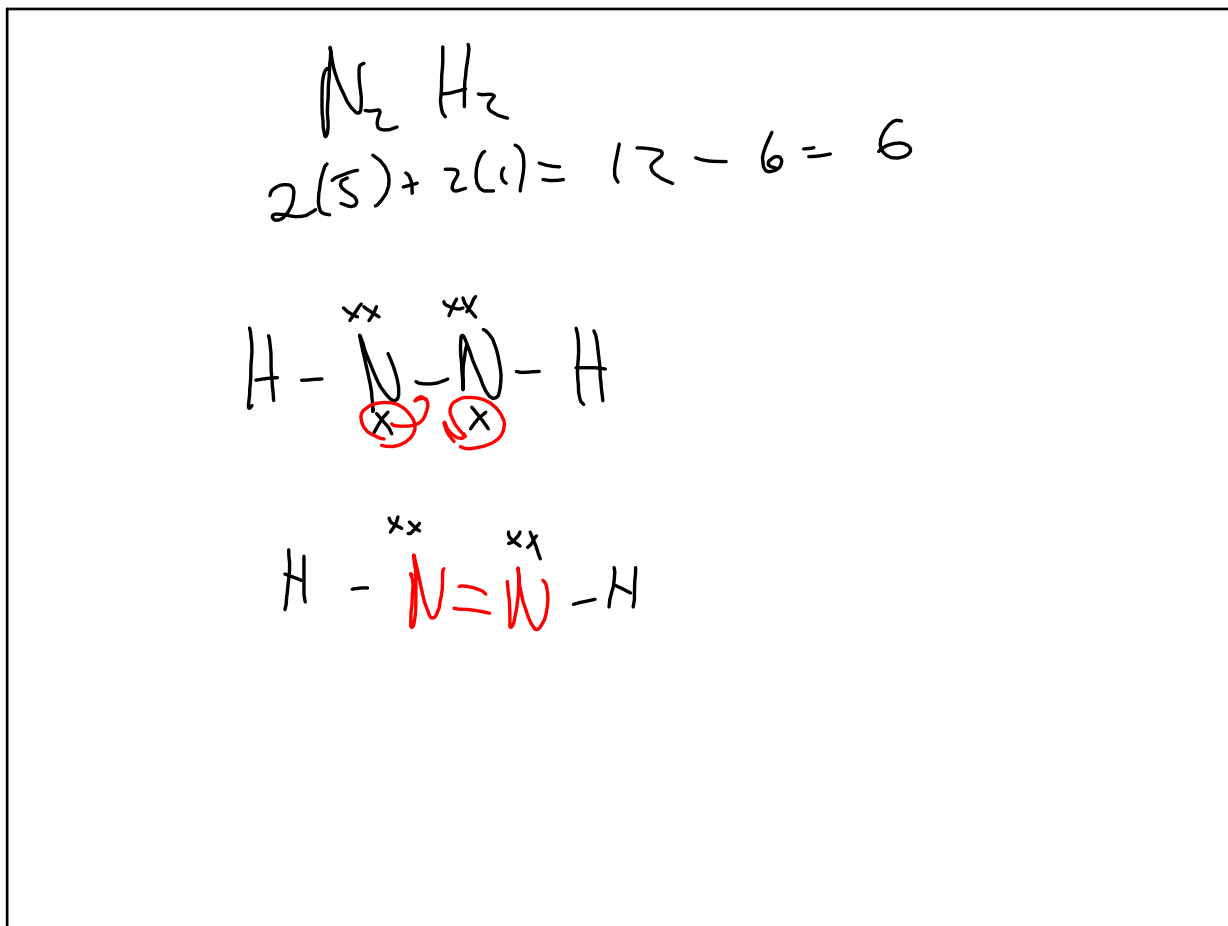
$$\frac{PV}{T} = \frac{PV}{T}$$

$$\frac{(100 \text{ mmHg})(900 \text{ mL})}{1} = \frac{P(300 \text{ mL})}{2}$$

Jan 28-8:37 AM



Jan 28-8:40 AM



Jan 28-8:45 AM

BP elevation

$K_b = 0.52 \text{ } ^\circ\text{C}/\text{M}$

$\Delta T = (K_b \times m) i$ ← # ions

NaCl

CaCl₂

BaCl₂

$\textcircled{2}$ CuSO₄ · 5H₂O

$\textcircled{4}$ $\leftarrow \frac{1}{2}$ C₆H₁₂O₆

25ml H₂O

Jan 28-8:51 AM