

$$K = \frac{[P]}{[R]}$$

$K \gg 1$ $\frac{5}{1}$ $\frac{[P]}{[R]}$ ← (2)5
↗ forward

$K \ll 1$ $\frac{1}{10,000}$ $\frac{[P]}{[R]}$ ← 10,000
↖ favors R

Feb 13-9:55 AM

$$\text{React} \xrightleftharpoons[k_r]{k_f} \text{Prod}$$

$$K_f = \frac{[\text{Prod}]}{[\text{React}]}$$

$$K_r = \frac{[\text{React}]}{[\text{Prod}]}$$

$$\frac{K_f}{1} = \frac{1}{K_r}$$

Feb 13-10:02 AM

Diff between

ΔH	Hess's Law	K
Chang sign (negate)	Flip Eqn	$\frac{1}{K}$ Take inverse
Add ΔH $\Delta H_1 + \Delta H_2$	Add Eqns	Mult. $K_1 * K_2$
Double ΔH	Double Eqn	K^2
$\frac{1}{2}(\Delta H)$	$\frac{1}{2}$ Eqn	$K^{1/2}$ or \sqrt{K}

"one power of mol more"

Feb 13-10:04 AM

(gas) $\frac{K_c}{1} = \frac{[P]^{coeff}}{[R]^{coeff}}$ $\frac{K_p}{1} = \frac{P_{prod}^{coeff}}{P_{react}}$

Molarity $Atm = Pressure$

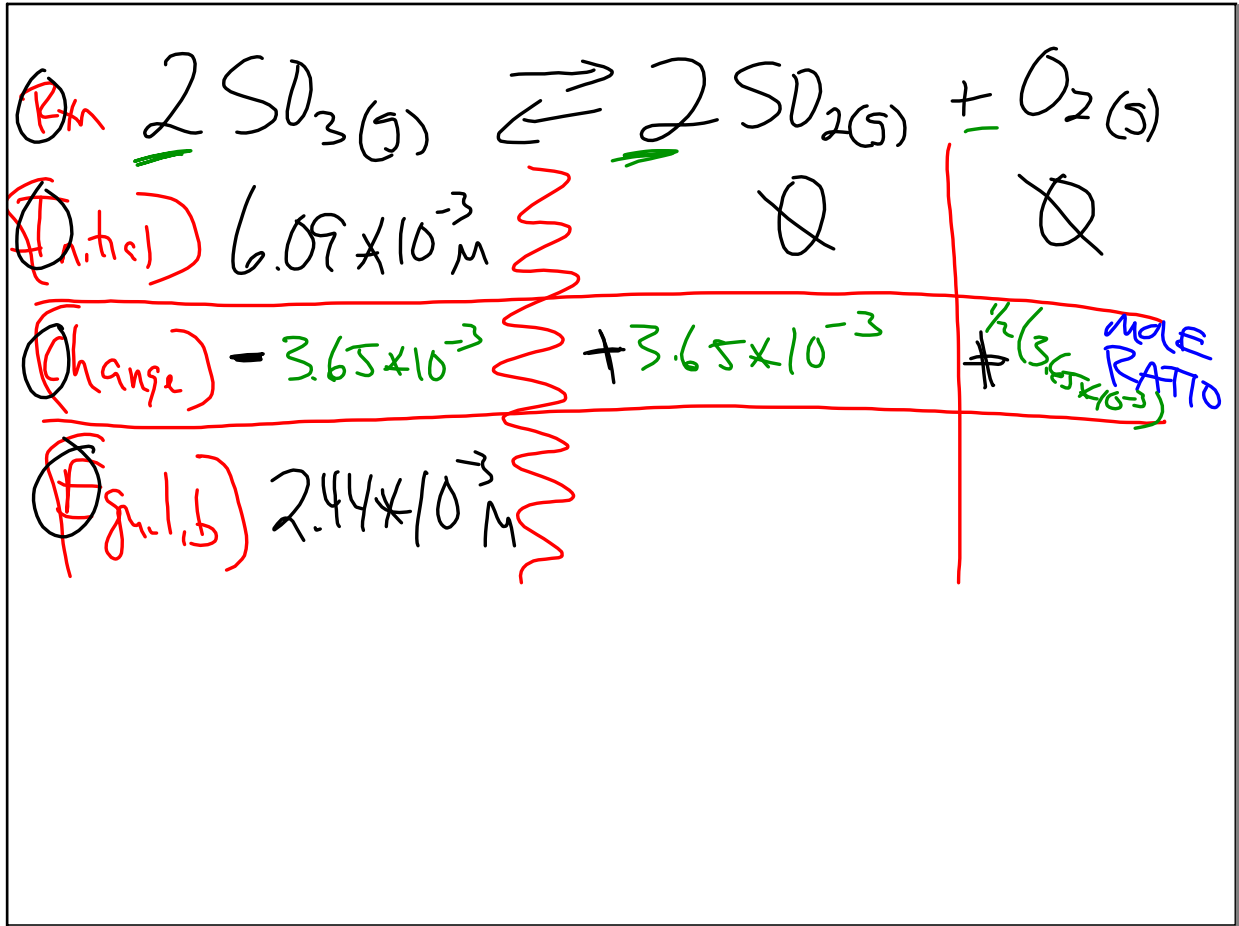
$PV = nRT$
 $P = \frac{n}{V} RT$
 $P = MRT$

$K_p = K_c (RT)^{\Delta n}$

$K_c = K_p (RT)^{-\Delta n} = \frac{K_p}{(RT)^{\Delta n}}$

[GAS]
 $\left[\begin{matrix} \sum \text{moles prod} \\ - \sum \text{mole react} \end{matrix} \right]$

Feb 13-10:11 AM



Feb 13-10:17 AM

$$15 / 22 + 32$$

Feb 13-10:21 AM