

(12)

I	2.74	Q	Q
Δ	-x	+x	+x
E	2.74-x	x	x

$2.74 - 1.496 = 1.244$

$K_p = 1.8$

$$K_p = \frac{(P_{Cl_3})(P_{Cl_2})}{(P_{PCl_5})} = \frac{(x)(x)}{2.74-x} = 1.8$$

$$x^2 + 1.8x - 4.932 = 0$$

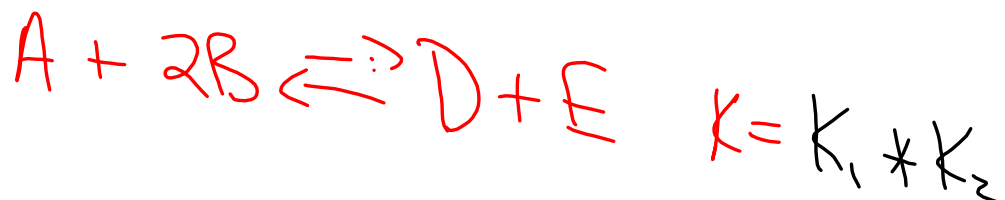
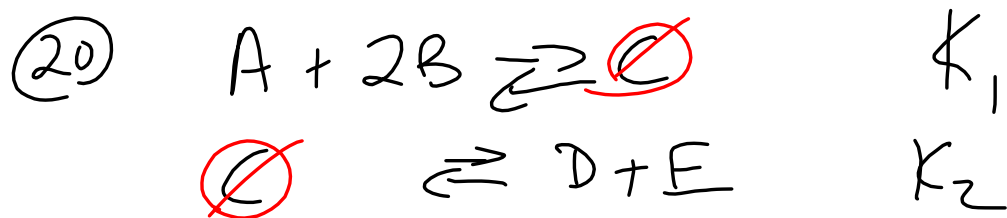
$$x = 1.496$$

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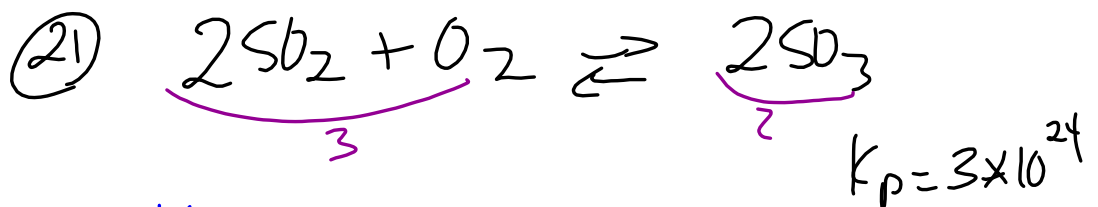
(18)

$$30 KJ + 2NOBr(g) \rightleftharpoons 2NO(g) + Br_2(l)$$

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

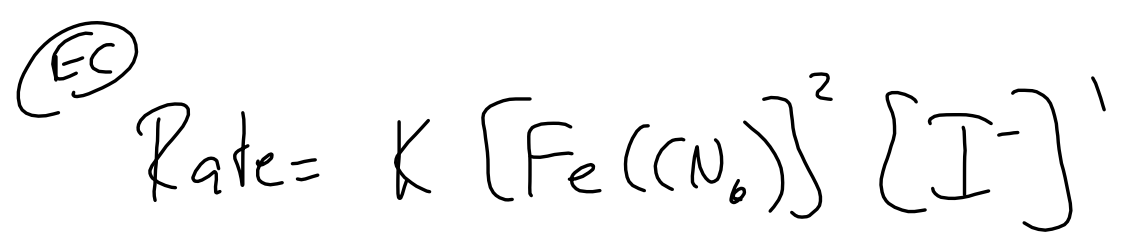
$$3 \times 10^{24} = K_c \left((0.08206)(298) \right)^{-1}$$

$$(2 - 3) = -1$$

$$\frac{3 \times 10^{24}}{1} = \frac{K_c}{\left((0.08206)(298) \right)^1}$$

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(EC)



$$k = \frac{1}{\text{M}^2 \cdot \text{sec}}$$

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