

(15.44) $\text{Br}_2 + \text{Cl}_2 \rightarrow 2\text{BrCl}$ $K_c = 7.0$

I	0.25	0.25	
Δ	-x	-x	+2x
E	0.25-x	0.25-x	2x

$\rightarrow 0.108\text{M}$ 0.108M 0.284M $x = 0.142$

$$K_c = \frac{(\text{BrCl})^2}{(\text{Br}_2)(\text{Cl}_2)} = \frac{7.0}{1} = \frac{(2x)^2}{(0.25-x)^2}$$

$\sqrt{7x}$?
 $x\sqrt{7}$

$$\frac{\sqrt{7}}{1} = \frac{2x}{0.25-x}$$

$$2x = \sqrt{7}(0.25-x)$$

$$2x = 0.66 - \sqrt{7}x$$

$$4.65x = 0.66$$

$x = 0.142$

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Le Chatlier's Principle

If you stress a system....
 It WILL move in a direction
 to relieve that stress.

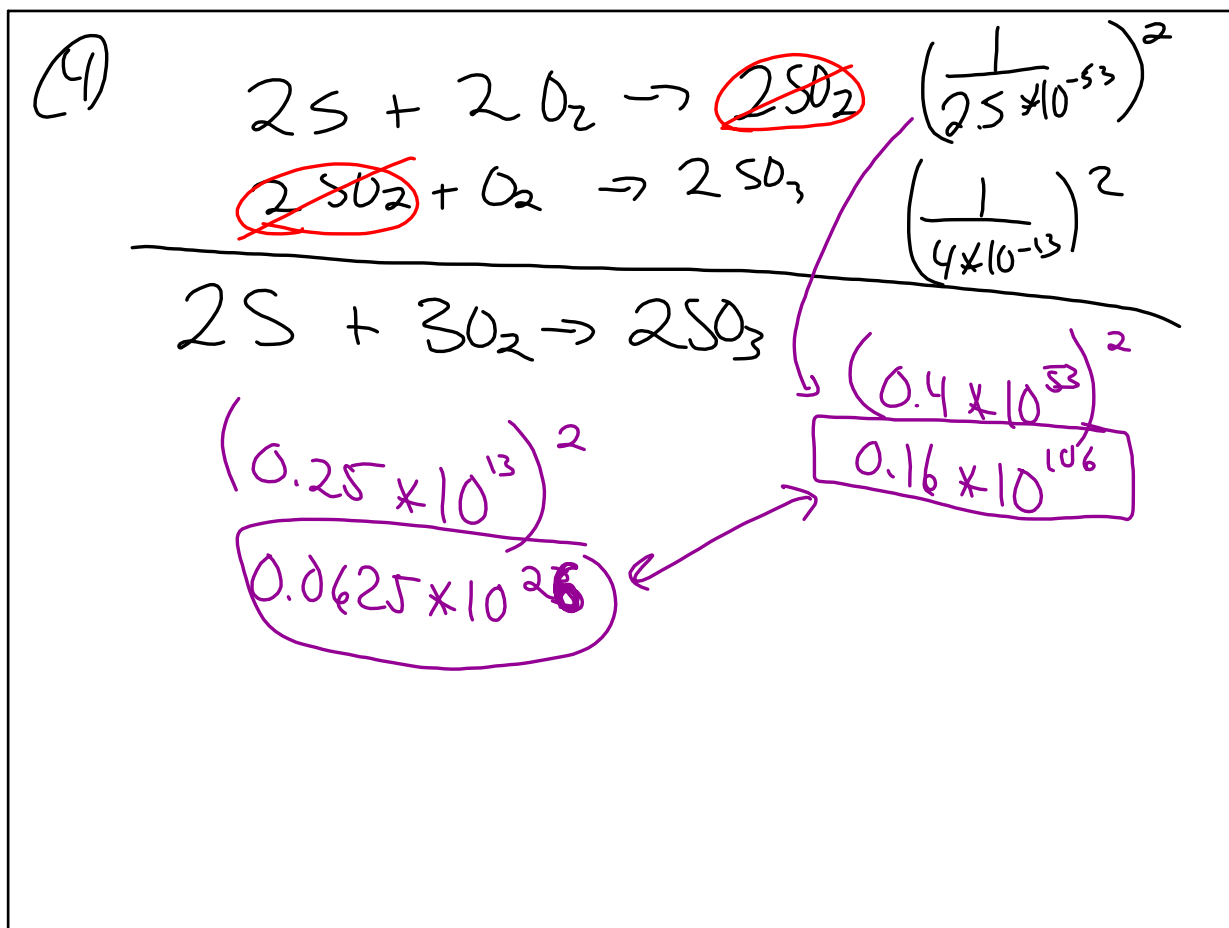
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HW PS 15-1
Spring 2018 Exam I
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PS 15
② $\left(\frac{1}{k}\right)^{1/2}$ $\sqrt{\frac{1}{k}}$

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