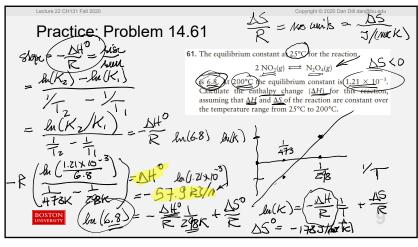
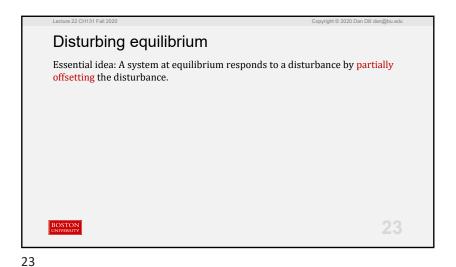


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Practice: Problem 14.52  $SO_{2}Cl_{2}$   $SO_{2}$   $Cl_{2}$  Q  $SO_{2}Cl_{2}$  Q  $SO_{2}$ 

Online course evaluation (lecture and discussion)

bu.campuslabs.com/courseeval of lecture and discussion

Use BU login and Kerberos password

Anonymous and seen by instructors only after grades submitted

Comments in text fields especially valued and encouraged.

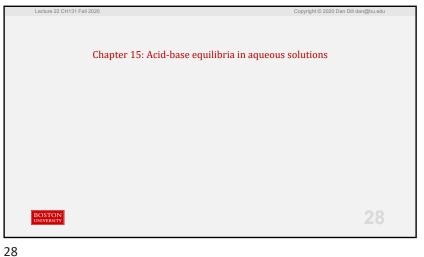
Please try to answer all questions

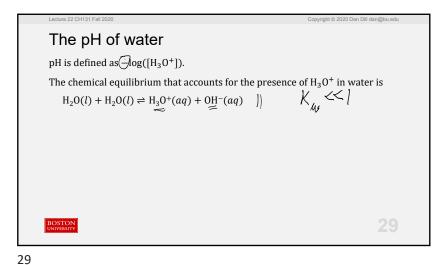
When done, please close your browser

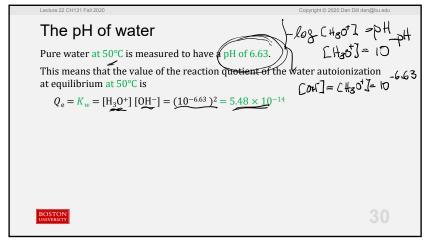
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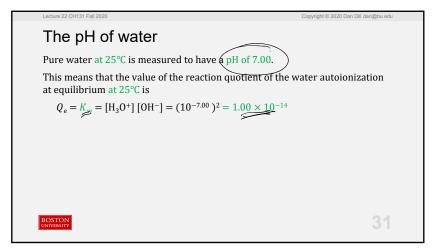
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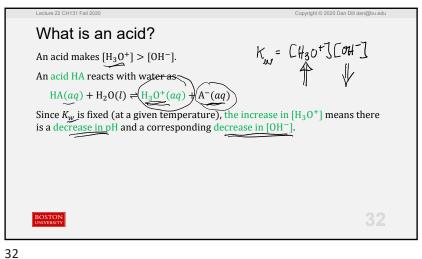


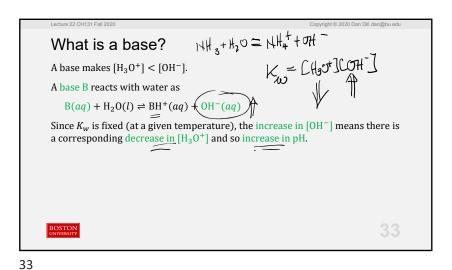


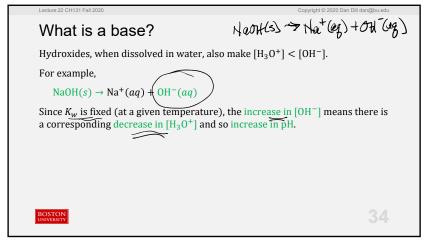


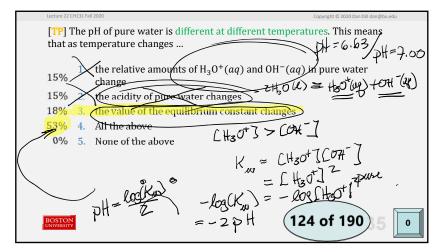
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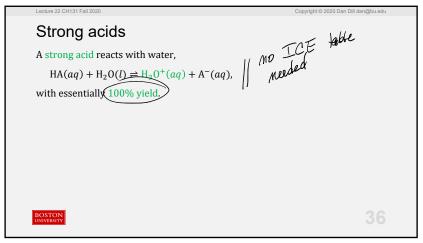
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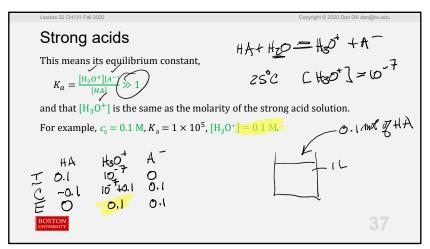




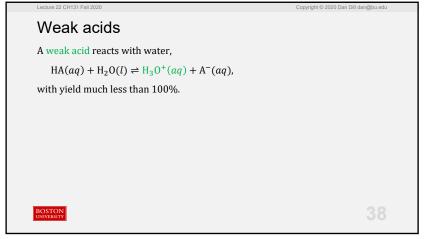


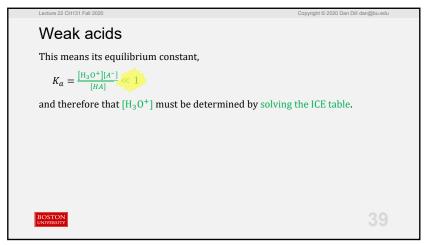






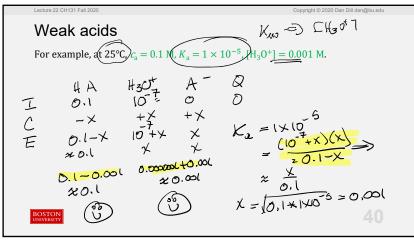
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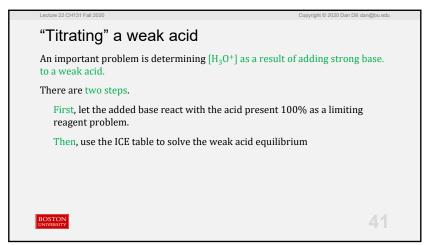




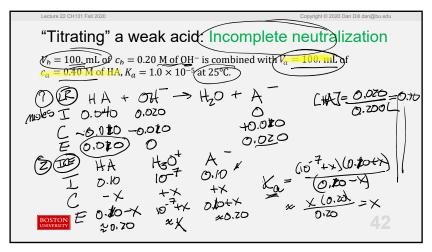
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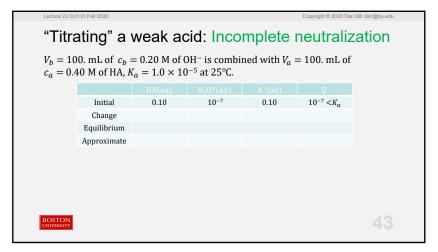
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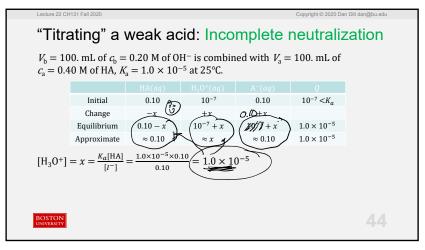


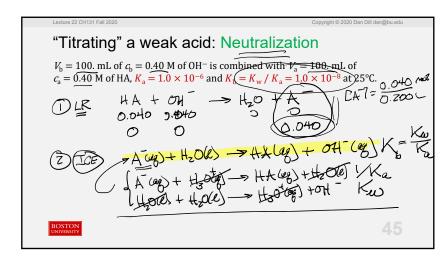


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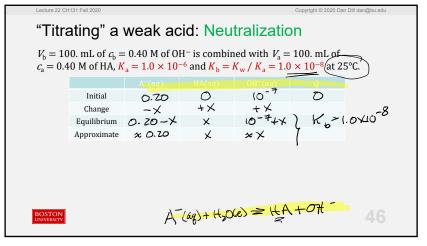


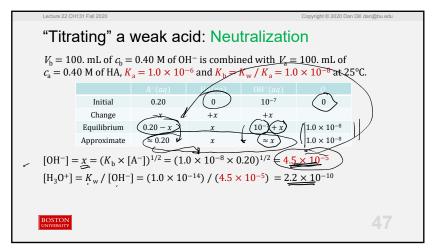






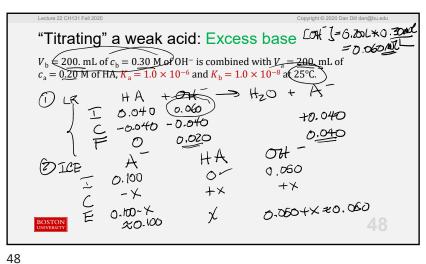
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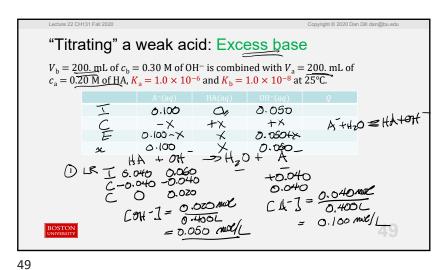




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Lecture 22 CF	Lecture 22 CH131 Fall 2020					Copyright © 2020 Dan Dill dan@bu.edu	
"Titra	ating" a v	weak ac	id: Exce	ess base	Э		
	00. mL of $c_b =$ 20 M of HA, $K$						
	Initial	0.10	0	0.050	0		
	Change	-x	+x	+x			
	Equilibrium	0.10 - x	x	0.050 + x	$1.0 \times 10^{-8}$		
	Approximate	≈ 0.10	X	≈ 0.050	$1.0 \times 10^{-8}$		
[OH <sup>-</sup> ] =	= 0.050 (easy	!) -					
$[H_3O^+]$	$= K_{\rm w} / [{\rm OH}^-]$	$= (1.0 \times 10$	<sup>-14</sup> ) / (0.050	$)) = 2.0 \times 10$	)-13		
[HA] =	x = Kb [A-] /	[OH-] = 1.0	$\times 10^{-8} \times 0.1$	10 / 0.050 =	$2.0 \times 10^{-8}$ (t	iny!)	
BOSTON UNIVERSITY						50	