

Challenge Problem Set 2 CH102Summer 1 2013 Copyright © 2013 Dan Dill dan@bu	ı.edu
Challenge 2: 2. Le Chatelier's principle	
The reaction <b>2</b> A( <i>aq</i> ) $\leftrightarrows$ <b>2</b> B( <i>aq</i> ) is at equilibrium, with [A] <sub>e</sub> = 0.100 M and [B] <sub>e</sub> = 2.00 M and so <i>K</i> = 400.	
Then <b>0.100 M of A is added</b> . We know [A] <sub>e</sub> will change to a value <b>between 0.100 M and 0.200 M</b> and that [B] <sub>e</sub> will chang to a value <b>greater than 2.00 M</b> .	e
Find the new values of [A] <sub>e</sub> and [B] <sub>e</sub> .	
Answer: [A] <sub>e</sub> = 0.105 M and [B] <sub>e</sub> = 2.10 M	
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