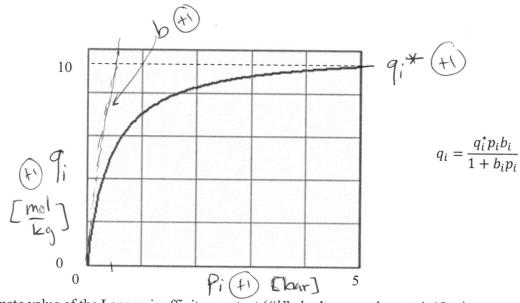
Quiz 9

Date: 04/14/16

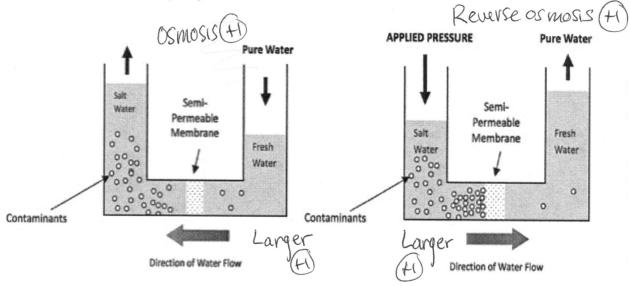
Name:

Problem 1: Label the salient features on the attached Langmuir isotherm: loading at saturation, Langmuir affinity constant, x and y axes (include typical units on the axes).



What is the approximate value of the Langmuir affinity constant ("b", don't worry about units)? $\frac{10}{6.5} = \sim 20$

Problem 2: Consider the following diagram:



- (a) Which system is "osmosis" and which system is "reverse osmosis"? Label on the diagram.
- (b) On each diagram, label the reservoir with the larger water fugacity.
- (c) What often-neglected effect is contributing to the fugacity of the left reservoir for the right diagram? Poyn + inq