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Lively

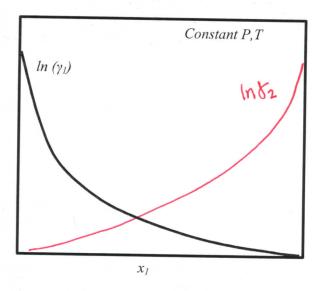
Quiz 4

Date:

Name:

Solutions

**Problem 1:** For a binary mixture of 1 & 2, sketch how the activity coefficient of component 2 will likely vary with  $x_1$ .



Problem 2: True/False

- (a) An excess property is the difference in the solution property and the ideal gas property at the same temperature, pressure and composition. \_\_\_\_False\_\_\_\_
- (b) The activity coefficient is the ratio of the real solution fugacity and the fugacity predicted by the Lewis-Randall rule.
- (c) All excess properties become zero for equimolar mixtures. False