

**Name:**

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**Homework for Lecture 5**

Consider a binary solution of A and B with the concentration of  $X_A=0.20$ . Assuming the Henry activity coefficient ( $\gamma_A$ ) of A in this binary solution is given by

$$\ln \gamma_A = 0.50 X_A^2 X_B.$$

Determine the ratio of the chemical diffusion coefficient of A to the tracer diffusion coefficient of A in the solution.

**Answer:** covered in Lecture 5