GLY 4310 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

February 25, 2020

**Take Home Quiz 5**

Take home quizzes are due at the beginning of the following lecture. They are worth 2 points of EXAM credit. Please attach this sheet to your answers if additional sheets are used.

1. Figure 7.19 in the text shows the dry (PH2O = 0) and the wet (PH2O = Pfluid) cases. Use the Clapeyron equation to explain the following:

A. For the dry case, why the slope of dP/dT is positive.

B. For the wet case, why the slope of dP/dT is negative.

C. For the wet case, below P = 0.15 GPa, why the curve shows a large initial depression of the melting point.

D. For the wet case, above P = 0.15 Gpa, why the slope of the line is much less negative.