HOMEWORK #5

BIOL/CHEM 5312

due Friday, March 27, 2015

van Holde, Johnson, & Ho Chapter 5, p. 270-274

problems 5.0, 5.1, 5.2, 5.5, 5.8, 5.9, 5.15, 5.17, 5.18, 5.19

5.0. Verify the Results of Table 5.4, page 234.

Remember to plot your data (e.g. 5.2, 5.15, 5.17, 5.19) if appropriate

Notes:

- 5.5a plot $ln[r(t)/r(t_o)]$ vs time and determine the slope
 - 5.5b use equation 5.26
 - 5.5c calculate fo from Rs, then calculate f from equation 5.15
- 5.8de use the equation: $f/f_0 = f/f_{sp} \times f_{sp}/f_0$

in part d, assume that f/f_{sp} is one and that f_{sp}/f_o is of the form $(1 + delta)^{1/3}$, solve for delta

in part e, assume that f_{sp}/f_o is $(1+.2)^{1/3}$, and look up in Figure 5.7 or in handout

5.15 use Equation 5.42a