## 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 $\ln \left[r(\mathrm{t}) / \mathrm{r}\left(\mathrm{t}_{\mathrm{o}}\right)\right]$ vs time and determine the slope
5.5b use equation 5.26
$5.5 c$ calculate $f_{o}$ from $R_{s}$, then calculate $f$ from equation 5.15
5.8de use the equation: $f / f_{o}=f / f_{s p} \times f_{s p} / f_{o}$
in part $d$, assume that $f / f_{s p}$ is one and that $f_{s p} / f_{o}$ is of the form ( $1+$ delta) ${ }^{1 / 3}$, solve for delta
in part e , assume that $\mathrm{f}_{\mathrm{sp}} / \mathrm{f}_{\mathrm{o}}$ is $(1+.2)^{1 / 3}$, and look up in Figure 5.7 or in handout
5.15 use Equation 5.42a

