

## Selected Answers to HW #5

Include explanatory text and intermediate calculations in your solutions. **You will not receive credit for merely repeating an answer given here without supporting work.**

If an answer is not provided below, it is either because the solution is trivial or because disclosure of the answer would give away too much of the solution.

It is possible that one or more of the answers given below is incorrect. There is a trade-off between speed and accuracy. The faster that answers are posted to the web site, the more likely that a mistake could have been made in the rush to prepare them.

If you suspect that an answer below is incorrect, please let me know as soon as possible.

1.
  - a. [see Table 9.2]
  - b. [see Table 9.2]
  - c. [see Table 9.2]
  - d. [see Table 9.2]
2. frequency ratio = 1.888
3. [see Table 9.1]
4. difference in  $C_3$  notes = 37.5¢  
[difference in  $C_4$  notes not given]
5.  $T = 200 \text{ N}$
6. fraction distance between bridge and nut = 0.66 (66%)
7. [proof]