

# MATH 252 HW #5: CHAPTER 18

FALL 2008 (REVISED)

**Write your name and class and clearly separate sections! See the syllabus.**

**You should photocopy your homework for future reference.**

Show work where appropriate, and use “good form and procedure,” as in class!

(The solutions manual may have insufficient work.)

This is due when you take Quiz 5 on the last day of class.

Graded out of 10 points.

“\*” denotes “See Hint below.”

Read some of the Examples in this chapter for additional assistance.

(My notes are also fair game for tests.)

18.1: 5, 7, 9, 11, 15, 17, 19, 22, 24, 30\*

**Note on 30:** Based on our discussion in class, can you see why this makes physical sense?

**Look at** 32a, 33.

18.2: 3, 5, 7, 9, 13, 15, 19, 24\* (just find the mass), 26\* (just find the mass)

**Look at** 23.

**Answer to 24:**  $\frac{1}{6}k(17^{3/2} - 1)$ . Hint: Use symmetry.

**Answer to 26:**  $3\pi\delta\sqrt{a^2 + b^2}$ .

18.3: 5, 11, 13