

APPM/MATH 4660 Homework #1
DUE 01/25/08

January 16, 2008

1. §7.1 #2
2. §7.1 #4(b,c)
3. §7.1 #10 HINT: Write Ax in such a way that you can use the Cauchy–Bunyakovsky–Schwarz inequality.
4. For what set of vectors $x \in \mathbb{R}^n$ does $\|x\|_1 = \|x\|_2 = \|x\|_\infty$?
5. §7.2 #3(a,b,c)
6. §7.2 #6(d,e,f)
7. §7.2 #7(a,b,c)
8. §7.2 #12