

APPM 3310 — Problem Set 3
Due: Wednesday, September 16, 2009

1. Section 1.8, p 66: #1bf, 5, 7ac, 15a & b(ii)
2. Section 1.8, p 70: #22ef, 23c, 25
3. Section 1.9, p 74: #1c, 3, 6, 10bc, 23ab & c(iv)
4. Additional question for 1.9.23: If A , B , C , and D are all $n \times n$ square matrices and $F = \begin{bmatrix} A & B \\ C & D \end{bmatrix}$ does $\det(F) = \det(A)\det(D) - \det(B)\det(C)$? Explain. (Hint: Try it for a few examples. Feel free to use a computer to help.)