

MATH 300 B — Spring 2011
Final Exam Practice Problems Hints and Answers

1. All statements are FALSE except (d), (g), (h), and (k).
7. No.
9. (a) T; (b) F; (c) T.
10. (a) $B - f(C) = \{4, 5, 6, 7\}$
(b) $f^{-1}(D) = \{1, 2, 3, 5, 6\}$
11. (a) T; (b) F.
12. $f(x)$ is injective, but not surjective (and therefore not bijective).
13. $f(x, y)$ is one-to-one and onto
14. (a) yes; (b) no.
15. (b) no.
16. (a) F; (b) T; (c) T.