

Math 3000, Homework assignment #8

1. Read Section 5.2
2. Section 2.3: 1,2a-d,3acd,6ab,7acg,8,9,11,15de,16,17,26. Turn in 2,6,8,9,11,17.
3. Extra problem (turn this in also): Let $f(x) = |x - 3| + 2$. Find the following:
 - a) $f([2, 5])$
 - b) $f([0, 2])$
 - c) $f^{-1}((4, 10))$
 - d) $f^{-1}((0, 1))$
 - e) $f^{-1}([0, \infty))$
 - f) $f^{-1}(\{8\})$
 - g) $f^{-1}(\emptyset)$

(Hint: sketch a graph of f first.)