

Name: \_\_\_\_\_ Section: \_\_\_\_\_

**Problem 1.** Assume  $f$  is a one-to-one function. If  $f(98237402) = -127562345$ , what is  $f^{-1}(-127562345)$ ? (2 points)

**Problem 2.** Use the Inverse Function Property to show that  $f$  and  $g$  are inverses of each other:

- $f(x) = x^2 - 9, (x \geq 0)$
- $g(x) = \sqrt{x + 9}, (x \geq -9)$

(3 points)

**Problem 3.** Find the inverse function of  $f$

$$f(x) = 9 + \sqrt{x}$$

(5 points)