- **9.** [15 points] Suppose that W(h) is an invertible function which tells us how many gallons of water an oak tree of height h feet uses on a hot summer day.
 - **a**. [9 points] Give practical interpretations for each of the following quantities or statements.
 - W(50)

• $W^{-1}(40)$

• W'(5) = 3

- **b.** [6 points] Suppose that an average oak tree is A feet tall and uses G gallons of water on a hot summer day. Answer each of the questions below **in terms of the function** W. You may also use the constants A and/or G in your answers.
 - A farmer has a grove with 25 oak trees, and each one is 10 feet taller than an average oak tree. How much water will be used by his trees during a hot summer day?
 - The farmer also has some oak trees which each use 5 fewer gallons of water on a hot summer day than an average oak tree does. How tall is one of these trees?