- 4. In 1950, a very invasive tree was introduced into a mountainous region of South Africa. Since then, the number of trees has grown exponentially. Suppose that N(t) gives the number of trees, in *thousands*, as a function of time, t, measured in years since 1950.
 - (a) (3 points) In the context of this problem, explain the meaning of $N^{-1}(25)=46$.

(b) (3 points) In the context of this problem, explain the meaning of N'(46) = 3.

(c) (4 points) If 100 trees were introduced in 1950, use the above information to find a formula for N(t).