- 9. (12 points) As fall progresses the trees in the Arboretum gradually change color. The function f gives the percentage of leaves on a particular tree that have begun to change colors as a function of the number of days since September 30. (October 1st corresponds to t = 1.) All answers should be in complete sentences.
- (a) Give a practical interpretation in everyday terms describing what f(10) = 15 means in the context of this problem.

(b) Give a practical interpretation for what f'(15) = 9 means in the context of this problem.

(c) Give a practical interpretation for what $f^{-1}(3) = 6$ means in the context of this problem.

(d) Give a practical interpretation describing what $(f^{-1})'(40) = 0.5$ means in the context of this problem.