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 $f^{\prime}(15)=9$ 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 $\left(f^{-1}\right)^{\prime}(40)=0.5$ means in the context of this problem.
