9. [12 points]
a. [6 points] Let $f(y)$ be the length of a trout (in inches) that is $y$ years old and $g(d)$ be the weight (in lbs) of a trout of length $d$ inches. Suppose that both $f$ and $g$ are invertible functions. Find a practical interpretation for the following mathematical expressions:
i) $g(17)=3$
ii) $f^{-1}(7)$
iii) $g(f(7))$
b. [6 points] Let $A(t)$ and $B(t)$ be the number of apple and pear trees in Michigan $t$ years after 2005. Let $C(t)$ be the average harvest yield of apples per tree (in pounds per tree) in Michigan $t$ years after 2005. Similarly, define $D(t)$ to be the average harvest yield of pears per tree (in pounds per tree) in Michigan $t$ years after 2005. Find mathematical expressions using the functions $A(t), B(t), C(t)$ and $D(t)$ for each of the following quantities:
i) The number of apple and pear trees in Michigan in 2013.

Answer:
ii) The total number of pounds of apple harvested in Michigan in 2005.

Answer:
iii) The average harvest yield of pears per tree (in pounds per tree) in Michigan $k$ decades after 2010 (1 decade $=10$ years).

Answer: $\qquad$

