8. [18 points] The figure below gives the graph of a function $A=b(m)$. The function is periodic and a full period is shown on the graph.

a. [8 points] For each of the following graphs, give an expression for the function depicted in terms of the function $b$.

b. [4 points] The function $b$ from the previous page represents the number of bushels of Michigan-grown organic apples, $A$, available in Michigan grocery stores as a function of the number of months, $m$, after January 1. The function $A=b(m)$ is repeated below.

Which of the graphs on the preceding page could best correspond to the statement:
"In Washington, the apple growing season starts a month earlier, and the peak grocery store supply is three times as much as in Michigan." Explain your answer.

c. [6 points] Using the graph of $b(m)$, repeated above, sketch a well-labeled graph of $b^{\prime}(m)$. $b^{\prime}$


