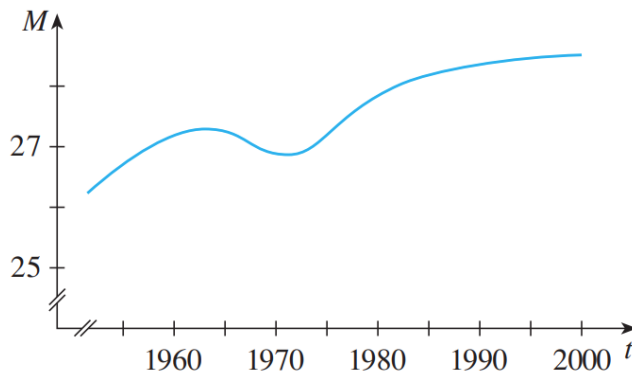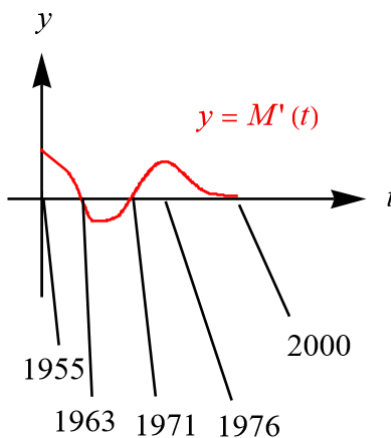## Exercise 15

The graph shows how the average age of first marriage of Japanese men varied in the last half of the 20th century. Sketch the graph of the derivative function $M'(t)$. During which years was the derivative negative?

Solution

Below is a sketch of $M'(t)$ versus t.

The derivative is negative between 1963 and 1971 because that's when the graph of $M(t)$ is decreasing.