- 4. [9 points] On the axes provided below, sketch the graph of a single function j(x) that satisfies all of the following conditions.
 - The domain of the function j(x) includes -6 < x < 9.
 - On -6 < x < 0, the function j(x) is the derivative of the function m(x), which is shown in the graph to the right. Note that m(x) is linear for -6 < x < −5 and is constant for -1 < x < 0.
 - j(x) is continuous on 0 < x < 5.
 - j(x) is increasing and concave down on 0 < x < 3.
 - The average rate of change on [3, 5] is $-\frac{1}{2}$.
 - $\lim_{x \to 6} j(x)$ does not exist.
 - j(6) = -3.
 - The instantaneous rate of change of j(x) at x = 8 is 2.



