- **2.** [10 points] On the axes provided below, sketch the graph of **one** possible function y = f(x), satisfying all of the following requirements. Your graph should clearly show the properties listed below to receive full credit.
 - The domain of f(x) is the interval -6 < x < 6.
 - The range of f(x) is $-5 < y \le 4$.
 - f(-4) = -3.
 - f(x) has a constant rate of change for -6 < x < -3.
 - f(x) is increasing on the interval -3 < x < 0.
 - The average rate of change of f(x) is -1 for $0 \le x \le 2$.
 - f(x) has a zero at x = 3.
 - The graph of f(x) is concave up for 2 < x < 6.
 - f(x) is decreasing for 2 < x < 6.

