8. [11 points] On the axes provided below, sketch the graph of a single function \( y = f(x) \) satisfying all of the following conditions:

- The domain of \( f(x) \) is the interval \(-8 < x \leq 6\).
- \( f(x) \) is continuous for all \( x \) in the interval \(-8 < x < -2\).
- \( f'(−7) = 0\).
- \( f(x) \) is decreasing and concave up for all \( x \) in the interval \(-6 < x < -4\).
- The average rate of change of \( f(x) \) is equal to 0.5 between \( x = -5 \) and \( x = -2\).
- \( f(0) = 2 \) and \( f'(0) = -1\).
- \( \lim_{x \to 2^-} f(x) = f(2) \) and \( \lim_{x \to 2^+} f(x) < \lim_{x \to 2^-} f(x) \).
- \( f(x) \) has constant rate of change on the interval \( 3 \leq x \leq 6\).

Make sure that your graph is large and unambiguous.