6. [12 points] The derivative of a function \( f \) is graphed below. Five points are marked on the graph of \( f' \), at \( x = A \), \( x = B \), \( x = C \), \( x = D \), and \( x = E \).

For each of the following, circle ALL answers which are correct. Each part has at least one correct answer. Pay careful attention to whether each question is asking about \( f \), \( f' \), or \( f'' \).

a. [2 points] The function \( f' \) has a local minimum when \( x = \) \( B \) or \( x = \) \( D \).

b. [2 points] The function \( f \) is increasing when \( x = \) \( A \) or \( x = \) \( E \).

c. [2 points] The function \( f \) has a critical point when \( x = \) \( B \) or \( x = \) \( D \).

d. [2 points] The global maximum of \( f \) on the interval \( A \leq x \leq E \) occurs when \( x = \) \( B \).

e. [2 points] The function \( f \) has an inflection point when \( x = \) \( B \) or \( x = \) \( D \).

f. [2 points] The function \( f'' \) is undefined when \( x = \) \( B \) or \( x = \) \( D \).