Curve Sketching

Suppose that you have the following information about a point (a, f(a)) on the graph of a continuous function f(x). What do you know about the point (a, f(a))?

a)
$$f'(a) = 0$$

b) f'(a) = 0, and f'(x) < 0 on (b,a), and f'(x) > 0 on (a,c), where b < a < c.

c) f'(a) = 0 and f''(a) > 0

d) f''(a) = 0

e) f''(a) = 0, and f''(x) < 0 on (b,a), and f''(x) < 0 on (a,c), where b < a < c.