11. The diagram shows the graph of \( y = f'(x) \). The \( x \)-axis is a tangent to this graph.

(a) Explain why the function \( f(x) \) is never decreasing.

(b) On a graph of \( y = f(x) \), the \( y \)-coordinate of the stationary point is negative. Sketch a possible graph for \( y = f(x) \).

Answers

(a) \( m = f'(x) \geq 0 \)

(b)