Increasing and Decreasing Functions

For a differentiable function f

A. If $f'(x) > 0$ in (a, b), then f is increasing on (a, b) ⟶ Tangent line has a positive slope

B. If $f'(x) < 0$ in (a, b), then f is decreasing on (a, b) ⟶ Tangent line has a negative slope

C. If $f'(x) = 0$ in (a, b), then f is constant on (a, b) ⟶ Tangent line has a zero slope (horizontal)