

slope $f(x_{n+1}, \tilde{y}_{n+1})$

slope $f(x_n, y_n)$

(x_n, y_n)



The diagram shows a blue curve representing a function. Two points are marked on the curve with blue dots. The lower point is labeled (x_n, y_n) . A blue tangent line is drawn at this point, and its slope is labeled $f(x_n, y_n)$. A second point is marked on the curve at a higher position. A red tangent line is drawn at this second point, and its slope is labeled $f(x_{n+1}, \tilde{y}_{n+1})$. The red line is steeper than the blue line, indicating a higher slope at the second point.