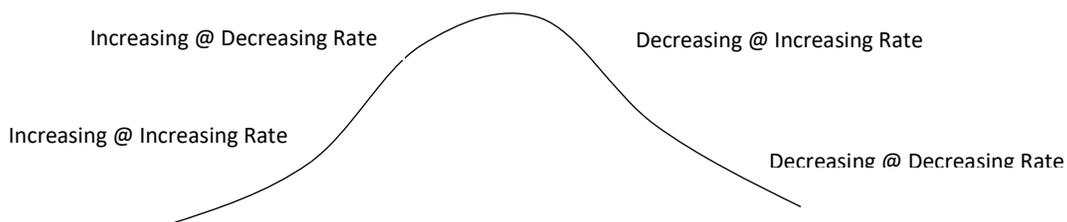


AP Calculus Increasing/Decreasing with Rates



Description	Graph
Increasing at a constant rate $f'(x) > 0$ $f''(x) = 0$	
Decreasing at a constant rate $f'(x) < 0$ $f''(x) = 0$	
Increasing at an Increasing Rate $f'(x) > 0$ $f''(x) > 0$	<p style="text-align: right;">*Slope of tangent will be below the graph</p>
Increasing at an Decreasing Rate $f'(x) > 0$ $f''(x) < 0$	<p style="text-align: right;">*Slope of tangent will be above the graph</p>
Decreasing at an Decreasing Rate $f'(x) < 0$ $f''(x) > 0$	<p style="text-align: right;">*Slope of tangent will be below the graph</p>
Decreasing at an Increasing Rate $f'(x) < 0$ $f''(x) < 0$	<p style="text-align: right;">*Slope of the tangent will be above the graph</p>