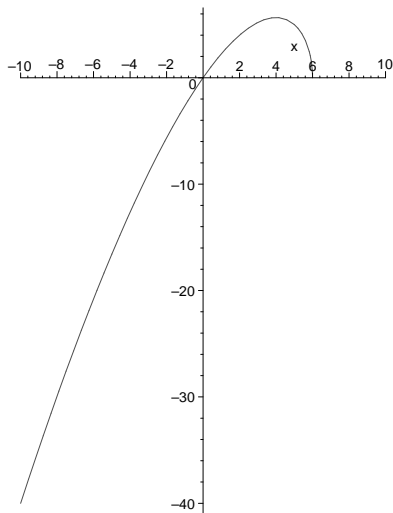


1. (4 pts) $\lim_{x \rightarrow 0} \frac{\arctan(4x)}{7x} =$

2. (2 pts) The graph below is the graph of $f'(x)$, the derivative of $f(x)$. Based on this graph, where is $f(x)$ decreasing?



3. (4 pts) Find the absolute maximum and absolute minimum for $f(x) = xe^{3x}$ on the interval $[-1, 1]$.