

HW 3-27

① If $B(x) = x^4 - 3x^2 + 2x$, find $\max_{\mathbb{R}} B$, $\min_{\mathbb{R}} B$.

② Suppose I is an interval, $f: I \rightarrow \mathbb{R}$ is differentiable, $f'(x) \geq 0$ for all $x \in I$, and $f'(x) = 0$ only for finitely many x . Prove that f is strictly increasing.