

$\ensuremath{\mathcal{UUUUUU}}$ Stashed changes

enumi
0 Prove the maximum principle using the Mean Value Theorem
(s). If $\Delta u = 0$ on a bounded domain Ω , show that

$$\max_{x \in \Omega} u(x) \tag{1}$$

In other words, the max of a harmonic function is attained on its boundary. Hint: Use proof by contradiction.