

rdan's decomposition and related results]

- Any bounded increasing function f is a function of finite variation, i.e. $V(f) < \infty$.
- (Jordan's decomposition) If f is a function of finite variation, i.e. $V(f) < \infty$, then $f = f_1 - f_2$ where f_1, f_2 are non-decreasing functions.
- The difference of two bounded increasing functions is a function of finite variation.

Proof. (S