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In order to correct our results we must make a change in hypothesis $H(f)_2$. We must assume moreover that $f(\cdot)$ is increasing.

Then, Theorem 4 becomes true because in Theorem 3 we have not used that f is nonincreasing in order to prove that $c = \inf_{x \in W^{1,p}(Z)} R(x)$ is a critical value.

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References

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