

10th Exercise Sheet, Set Theory of the Real Line, WS 2014/2015

Giorgio Laguzzi

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Exercise 19

Show that the Cohen forcing does not add dominating reals.

Exercise 20

Let φ be a formula with parameters in N , $\dot{y} \in V^{\mathbb{P}}$ and $p \in \mathbb{P}$ with (N, \mathbb{P}) -evidence about \dot{y} such that $p \Vdash \exists x \varphi(x, \dot{y})$. Show that there exists $\dot{x} \in V^{\mathbb{P}}$ such that $p \Vdash \varphi(\dot{x}, \dot{y})$ and p has (N, \mathbb{P}) -evidence about \dot{x} .

(Hint: see Lemma 6.1.21 in [BJ95].)