

H-Graphs in $\mathbb{H} \times \mathbb{R}$

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We give necessary and sufficient conditions to the existence of graphs over unbounded domains in $\mathbb{H} \times \mathbb{R}$ having infinite boundary values and constant mean curvature H , $0 < H < 1/2$, where \mathbb{H} is the hyperbolic plane. We also give some geometric properties and applications of these graphs.