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SIMULTANEOUS INTERSECTIONS WITH MEASURABLE FUNCTIONS

Suppose that $f_i : \mathbb{R} \to \mathbb{R}$ for $i = 1, 2, 3$ are measurable functions.

Question 1. Does there exist a non-vertical line which intersects the graphs of all three functions?

Additional information concerning this question can be found in [1].

References

[1] C. Freiling, P. D. Humke, and M. Laczkovich, *One Old Problem, One New, and their Equivalence*, Tatra Mt. Math. Publ. **24** (2002) 169-174.

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