

ZMATH 2003f.05173

Hilton, Peter; Pedersen, Jean

The unity of mathematics: A casebook comprising practical geometry number theory and linear algebra.

Teach. Math. Comput. Sci. 1, No. 1, 1-34 (2003).

We give a sustained example, drawn largely from earlier publications, of how we may freely pursue a line of mathematical enquiry if we are not constrained, unnaturally, to confine ourselves to a single mathematical subdiscipline; and we draw conclusions from the study of this example which are relevant at many levels of mathematical instruction. We also include the statement and proof of a new result (Theorem 4.1) in linear algebra which is obviously fundamental to the geometrical investigation which constitutes the leit-motif of the paper.

Classification: H65 G45 F65 D25 U65 D35