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Stoppel, Hannes

Calculus. Searching for a “real world” approach.

Czarnocha, Bronislaw (ed.) et al., The creative enterprise of mathematics teaching research. Elements of methodology and practice – from teachers to teachers. Rotterdam: Sense Publishers (ISBN 978-94-6300-548-7/hbk; 978-94-6300-547-0/pbk; 978-94-6300-549-4/ebook). 395-424 (2016).

Summary: The theme of the chapter, modelling real world problems in freshman calculus were discussed in the Introduction to Unit 4. Here we would like to explore the research question of the chapter, what is the nature of the master teacher’s success in reaching his successful design. We will trace the development of the teacher’s thinking in the chapter from cycle to cycle to identify patterns of the changes.

Classification: D40 I10 M10 D20

Keywords: modeling; real-life problems; calculus; teaching design

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