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Inversion exercises inspired by mechanics.

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Summary: An elementary calculus transform, inspired by the centroid and gyration radius, is introduced as a prelude to the study of more advanced transforms. Analysis of the transform, including its inversion, makes use of several key concepts from basic calculus and exercises in the application and inversion of the transform provide practice in the use of technology in calculus.

Classification: I55 M55

Keywords: inverse problems; fundamental theorem of calculus; elementary mechanics

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