

Curious Calculus Questions from Students and Colleagues—Part V: Take-Home Edition

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Curious questions are student questions based on a hunch, personal interest, generalization, or a suspected error. While these questions may baffle students and teachers alike, pursuing an answer may lead to a fascinating mathematical journey. This article discusses three advanced questions from Calculus II students. The questions required student–teacher collaboration outside of regular class time, as well as the consultation of external resources. Mathematics faculty may find that the results of these investigations provide fertile ideas for projects and enrichment.

Keywords: calculus, divergence by oscillation, indeterminate forms, factorial derivative, partial fractions, complex numbers



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