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Getting real about truly complex theorems.
Basic complex analysis is, at a first pass, essentially the calculus of complex functions. Tracing similarities and—more strikingly— differences between the real and complex versions of single-variable calculus can help students better understand both theories. Liouville's celebrated theorem on bounded entire functions is one good example. The theorem is "truly complex": nothing similar holds in the analogous real sense. The apparently innocuous replacement of z for x in familiar places changes the landscape completely and dramatically. I'll illustrate this thesis with pictures and examples. (Received September 25, 2018)