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# Math 185 -- Complex analysis - UCB Mathematics

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Solution: Fix an arbitrary continuous function on [0;1], say,  $^{\circ}2C[0;1]$ . By the Stone-Weierstrass theorem, there is a sequence fp ngof polynomials such that  $k^{\circ}$  p nk 1!0 as n!1. Then, since all functions involved are 7See also Folland [4], page 89. 8For what follows we only need that is finite if fis integrable, but the converse is also true. 9

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