Some density results in approximation theory

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In this talk, we deal with some density theorems in approximation theory. We start with giving brief historical and theoretical background for the Fourier series. Next, we mention both trigonometric and algebraic versions of the fundamental theorems of approximation theory as well as their first constructive proofs. We also mention Korovkin's theorems and their density results in approximation theory

Keywords. Density, Fourier series, Weierstrass' theorems, Korovkin's theorems