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Müntz's theorem and rational approximation. (In English)

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The authors prove a Müntz type theorem, using the usual Müntz-Szaz theorem, for approximating the reciprocal of a nonvanishing continuous functions f with reciprocals of polynomials in x^{n_k} on the positive real axis. The result is that reciprocals of these polynomials are dense in the class of $1/f$ with limit 0 at infinity if the usual conditions $\Sigma 1/n_k$ diverges is satisfied.

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Classification:
41A20 Approximation by rational functions
41A30 Approximation by other special function classes