We will state some basic properties of the weighted Hardy space for the unit disc with the weight function satisfying Muckenhoupt’s \((A^p)\) condition \((1 < p < \infty)\). Approximation properties in that space of the system of rational functions
\[ e_k(z) = \frac{1}{(2\pi i)(1 - \bar{a}_k z)^{\frac{1}{p}}} \]
where \(\{a_k\}\) is a sequence satisfying the Blaschke condition \(\sum_{k=1}^{\infty} (1 - |a_k|) < \infty\), will then be discussed.