

Obtaining algebraicity in subsets of real functions

By JUAN FERNÁNDEZ-SÁNCHEZ (Almería),
GUSTAVO A. MUÑOZ-FERNÁNDEZ (Madrid),
DANIEL L. RODRÍGUEZ-VIDANES (Madrid)
and JUAN B. SEOANE-SEPÚLVEDA (Madrid)

Abstract. In this note, we provide a fairly simple technique to obtain algebraicity within the framework of real-valued functions of one single variable. This allows us to recover old algebraicity results by means of this technique (as well as obtaining new ones).

JUAN FERNÁNDEZ-SÁNCHEZ
GRUPO DE INVESTIGACIÓN DE
ANÁLISIS MATEMÁTICO
UNIVERSIDAD DE ALMERÍA
CARRETERA DE SACRAMENTO S/N
04120 ALMERÍA
SPAIN

GUSTAVO A. MUÑOZ-FERNÁNDEZ &
DANIEL L. RODRÍGUEZ-VIDANES &
JUAN B. SEOANE-SEPÚLVEDA
INSTITUTO DE MATEMÁTICA
INTERDISCIPLINAR (IMI)
DEPARTAMENTO DE ANÁLISIS MATEMÁTICO
Y MATEMÁTICA APLICADA
FACULTAD DE CIENCIAS MATEMÁTICAS
PLAZA DE CIENCIAS 3
UNIVERSIDAD COMPLUTENSE DE MADRID
MADRID, 28040
SPAIN

Mathematics Subject Classification: 15A03, 30D15, 26A30.

Key words and phrases: lineability, spaceability, algebraicity, special functions, continuous functions.