

# Value Sets Of A Class Of Trinomials

Christian A. Rodriguez  
Alex D. Santos

Department of Computer Science  
University of Puerto Rico, Rio Piedras

December 2, 2013

# Table of Contents

1 Introduction

2 Our Problem

3 Results

# Polynomials in Finite Fields

# Value Sets

# Permutation Polynomials

Applications:

# Primitive Roots

# Table of Contents

1 Introduction

2 Our Problem

3 Results

# Our Polynomial



# The class of equivalence $(a, b)$

Definirla

# The class of equivalence $(a, b)$

Demostrar que es clase de equivalencia

# Problem

# Table of Contents

1 Introduction

2 Our Problem

3 Results

# Value set correspondence

Prop 1.4

# Size of equivalence classes

Prop 1.5

# Polynomials with Value sets of the same size

Prop 1.6 NO ESTA DEMOSTRADA EN EL PAPER

# Future Work

Conditions on  $a, b$  that provide us with PP. Otras mas.