

5.2. Campo de Galois

$$E = (\mathbb{Z}, +, \cdot)$$

$$\rightarrow \exists e \quad +, \cdot$$

$$\rightarrow a \star (b \star c) = (a \star b) \star c$$

$$\rightarrow a + b = b + a$$

$$a \cdot b = b \cdot a$$

$$\rightarrow a \star (b + c) = a \star b + a \star c$$

$$GF(n) \quad n = p^m$$

$$GF(2)$$

$$\{0, 1\}$$

A

B

A + B

A

0

0

0

0

1

1

1

0

1

.

A · B

0

0

0

,

1

1

0

$GF(2)^5$

$[0, 0, 0, 0, 0]$

$[0, 0, 0, 0, 1]$

2