

EJERCICIO 3

② $c = 359327$

③ $K_{pub} = \{e=29, n=91\}$

~~$n=91$
 $e=29$~~

$n = p \cdot q$

$n = 7 \cdot 13 = 91$

$p = 7$
 $q = 13$

④ $z = (7-1) \cdot (13-1) = 72$

⑤ $e \cdot d \bmod z = 1$

$29 \cdot d = 1 \bmod (72)$

$d = \frac{72k+1}{29} = \frac{72 \cdot 2 + 1}{29} = 5$

k tiene que ser entero al igual que d .

⑥ $c = 359327$

$K_{priv} = \{d=5, n=91\}$

$m_0 = 3^5 \bmod 91 = 61$

$m_1 = 5^5 \bmod 91 = 31$

$m_2 = 9^5 \bmod 91 = 81$

$m_3 = 3^5 \bmod 91 = 61$

$m_4 = 2^5 \bmod 91 = 32$

$m_5 = 7^5 \bmod 91 = 63$

$m = 61 - 31 - 81 - 61 - 32 - 63$