Encrease (- and) he said of will Catalin Rapeanu

118. Ana ij Bob folosesc RSA. Ana are cheia secreta (m=12827, d=2231). Determinați cheia sa jublică ri d'uptati textul IERI daca lungimen in clar este 2 ni lungimen blocurilor d'iptate este 3.

$$e=1$$
,
 $d \cdot e \equiv 1 \pmod{p(m)}$

$$\begin{array}{r}
1.2.8.2.7 \\
\underline{1} \\
-2.8 \\
2.1 \\
-2.3 \\
2.3 \\
-6.69
\end{array}$$

t=114

$$t^{2} - m = 114^{2} - 12827 = 12996 - 12827 = 169 = 133^{2}$$

$$p(m) = \frac{1}{4} \cdot \frac{1}{9} \cdot \frac{1}{9} \cdot \frac{1}{1} \cdot \frac{1}{$$

$$M = (t-5)(t+5) = (114-13)(114+13) =$$

$$= (2101.127)$$

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(22) Pr 200 1 11 = 1 1.7

$$\begin{cases}
(m) = (101-1) (124-1) = 100-126 = 12600
\end{cases}$$

$$\begin{cases}
1 \cdot 2231 = 1 (mod 12600)
\end{cases}$$

$$\begin{cases}
11600 = 2231 \cdot 5 + 1145
\end{cases}$$

$$\begin{cases}
1231 = 1145 \cdot 2 + 1
\end{cases}$$

$$(12600, 1231) = 1 \Rightarrow \exists 2231
\end{cases}$$

$$\begin{cases}
11600 = (1,0) = (0,1) = (1,-5)
\end{cases}$$

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\end{cases}$$

$$\begin{cases}
11600$$

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411 (mod 12827) = 4. 16 = 4.16 - (162) = = 64. 256 = 64 · 1401 = 12702 17 1 (mod 12827) = 17. (17) (mod 12827) = = 17. 289 · (2892) = 4913 · 65592 = =4913·11580 = 11329 8 -> 540 4 -> 12702 17 -> 11329 8-7540

5.40 1.270.2 11.329 540

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