$$\frac{RSA}{RSA} \frac{|\partial/3|}{|\partial/3|} \frac{5-12-24}{|\partial/3|} \frac{(RSA)}{|\partial/3|} \frac{(RSA)}{|\partial/3|$$

prode 3 e' RSA NOTYN 160177 S

. UNON V.,15 : 1596

(b) 415 31/ NNON1) NK N/16 217 (6,1) .0 'J 1c J 1091 (8310) NIG 515 (a) 6,210 1/ UNONY) NK 80,010 / 212 NUC, = NV (IN NVV): $K = \left\{ 6, n \middle| \alpha, p, q \right\}$ 0,9 kg MIG SID SGK, SID, 3 WON AD SZK SKEJE, 310 VVON . 0,9 162 1994 169 KIJG

7793111) 516

(6,n) 1712'3 NNNN) NK NK717 O'SK (7)

X 156610 NK 17503 N 0.716

5/03N (550) 'P' /Y $= \times \frac{b}{mod \Lambda}$ $(6) j(1) \Lambda k \Lambda 10$ 6/1

\03\W

103/N 60/C1) NK NJYDN 21> (10) NJ NON (6), '7' SY $\times = \times^{4} nnod n$ X = 2468 (186 60 76 /1 NJ : 1) Nd13 11.7 3 212 211/ NOW LOCKDO.0 b= 47, P=127, Q=191. (3 (0 U VON 1) VIC (>61 (C 4,80N D3IN (0,1C1) PG UNA 91) G (1,35) (9 0.710 Jek 189 (0),01) & 1/18 (01) .nose

:03,9110 le bv. 219 fr. 1) ENVE]

$$\Gamma_0 = A - 23940$$
 $\Gamma_1 = B = 47$
 $S_0 = 1$
 $S_1 = 0$
 $S_1 = 1$

 $E_{0} = 0$ $E_{1} = 1$ $\int_{H+1}^{\pi} |x_{-1}|^{2} = \int_{H-1}^{\pi} |x_{-1}|^{$

$$\int_{6}^{6} = \int_{4}^{6} - 25 \int_{5}^{6}$$

$$= 4 - (4) \cdot 1$$

$$= 0$$

23 940

$$SA + LB = A = g(d(A,B))$$

 $S = S_S = -11$
 $L = L_S = 5603$
 $A = S_S = 1$

95=4

$$-11(23946) + 5603(47) = 1$$

$$SA + EB = 1$$

$$A^{-1} \equiv S \mod B$$

$$B^{-1} \equiv E \mod A$$

$$S^{(1)} = 1$$

$$S^{(2)} = 1$$

$$S^{(3)} = 1$$

$$S^{(3)} = 1$$

$$S^{(47)} = 7$$

$$(b=47, n=pg=24257)$$
 (0.8 x l uple 512 16 x) 1510 y 1510 (p=47, n=pg=24257) (o.8 x l uple 512 16 x)

$$X = 2468 \ \text{Ic II} \ \text{[INJI]} \ \text{[IS I]} \ \text{[IS$$

$$(2468)^{8} \mod n = (2468)^{4})^{2} \mod n$$

$$= (4212)^{6} \mod n$$

$$= (7468)^{16} \mod n = (2468)^{8})^{2} \mod n$$

$$= (7468)^{16} \mod n = (2468)^{16})^{2} \mod n$$

$$= (15157)^{2} \mod n$$

$$=$$

plc 13 1.62x 713 5] (4 & 10 (0)(1) VII D.5,3 N NV/(C X=10642 - 5 2, 20N (03/N 5>71 (N1) V 25> X = 2468. (1) 10 Na VIL) Valor ,2 \ \931N : b, 10 51) b, 2961) 1 > 1 e : b. se uN Y mod p a mod (p-1) $X_1 = \left(y \mod p \right)$ a mod (p-1) mod p2 2 Se : proen N Y mod q a mod (2-1) a mod (2-1) X2 = [(Ymodq)] modq 3 8 Je CIVC, J'NY LINALEV X = X, mod p X = X2 mod 9

. 1001 NION COCN 13. 88

$$X = X_{1} \mod p$$

$$X = X_{2} \mod q$$

$$X = X_{2} \mod q$$

$$X = 55 \mod 177$$

$$X = 176 \mod 191$$

$$M = 191 \qquad M_{2} = 127 \qquad a_{2} = 176 \qquad q_{1} = 55$$

$$M = M_{1} = 191 \qquad M_{2} = \frac{M}{m_{2}} = 127$$

$$M = M_{1} \mod m_{1} = 191 \qquad M_{2} = \frac{M}{m_{2}} = 127$$

$$M = M_{1} \mod m_{1} = 191 \qquad M_{2} = \frac{M}{m_{2}} = 127$$

$$M = M_{2} \mod m_{1} = 191 \qquad M_{3} = 127 \mod 127 \qquad 2$$

$$M = M_{2} \mod m_{3} = 127 \mod 127 \qquad 2$$

$$M = M_{3} \mod m_{4} = 127 \mod 127 \qquad 2$$

$$M = M_{2} \mod m_{4} = 127 \mod 127 \qquad 2$$

$$\times = (a, y, M_1 + a_2 y, M_2) \mod M$$

$$= (55)(2)(191) + (176)(188)(127)) \mod 24257$$

$$= 2468$$

 $X = X \mod v - 6$ 16.5 = 1.000 16.5 = 1.000

$$\int_{\mathcal{C}} |S| \left(\times \right)^{\alpha} \equiv \times \text{ mod } n \quad \kappa'' S$$

$$\left(\times \right)^{\alpha} \equiv \times \text{ mod } n$$

$$\Rightarrow \left(e_{\kappa}(x) \right)^{\alpha} \equiv \times \text{ mod } n$$

$$\Rightarrow \left(e_{\kappa}(x) \right)^{\alpha} \text{ mod } n \equiv \times$$

$$\Rightarrow d_{\kappa} \left(e_{\kappa}(x) \right) \equiv \times$$