§8.1 $N=35=5 \times 7$ (in ourmend)
Step1:m:2 gcd $(35,2)=1$

$$
\begin{aligned}
& \frac{p^{2}}{2}=4,2^{3}=8,2^{4}=16,2^{5}=32,2^{6}=64=29 \\
& 2^{7}=58=23,2^{8}=46,2^{9}=22,2^{10}=44=9,2^{\prime \prime}=18 \\
& 2^{12}=36=1 \quad \therefore P=36
\end{aligned}
$$

5 tep $3 \quad P / 2=18$
step 4

$$
\text { step } 5
$$

S 8.2

$$
\underline{N}=21, m=11
$$

$$
m=11,11^{\prime}, 11^{2},
$$

$$
\left.\left|\psi_{3}\right\rangle=\left.\left(F^{\prime}(1) \tau\right)|0\rangle\right|^{\circ}(x)\right\rangle
$$

S8-3 $\quad x=\frac{61}{45}=1+\frac{16}{45}=1+\frac{1}{\frac{45}{16}}==9+\frac{1}{4}=\frac{1,}{45}$

Heso $\frac{121}{13}$

$$
\frac{y}{a}=\left[a_{0} \begin{array}{llll}
a_{1} & a_{2} & \cdots & a_{m}
\end{array}\right]
$$

$$
\begin{aligned}
& 61=\underset{a_{0}^{\prime \prime}}{1.45}+\underline{16}, 45=2 \cdot 16+13,16=1.13+3_{a_{1}}^{4} \\
& 13=3+1 \\
& \phi_{a_{3}} \\
& y=37042 \\
& Q=2^{20}, \frac{1}{2 Q}=4.76837 \times 10^{-7} \\
& \left.a_{0}=\frac{p_{0}}{q_{0}}+\frac{P_{1}}{q_{0}}-\frac{y}{Q} \right\rvert\, \leq \delta, \quad a_{0}+\frac{1}{a_{1}+1} \frac{P_{1}}{q_{1}}
\end{aligned}
$$

