Function $f_{1}(x)$
(example 1)


Truncated Approximations $f_{1}(x)_{M}$ to $f_{1}(x)$


$\begin{aligned}-M & =1 \\ \square M & =9 \\ M & =19 \\ M & =29\end{aligned}$

$$
\begin{aligned}
\square & M=1 \\
M & =9 \\
M & =19 \\
M & =29
\end{aligned}
$$

Function $f_{2}(x)$
(example 2)


Truncated Approximations $f_{2}(x)_{M}$ to $f_{2}(x)$


Close-up of Gibbs Phenomenon


