2400 review questions Answers

(1) Use the implicit function theorem.

(2) $\sum_{n=0}^{\infty} (-1)^n \frac{2^{2n+1} x^{2n+1}}{(2n+1)!}$, $R = \infty$;

$\sum_{n=0}^{\infty} (-1)^n \frac{2^{2n} x^{2n}}{(2n)!}$, $R = \infty$;

$\sum_{n=0}^{\infty} \frac{2^n x^n}{n!}$, $R = \infty$;

$\sum_{n=1}^{\infty} (-1)^{n+1} \frac{2^n x^n}{n}$, $R = 1/2$.

(3) $e/6$

(4) abs convergent