Each problem is worth 0 points. In the event of an actual quiz, you would have received warning.

1. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} (-1)^n \frac{x^n}{n^2 5^n}$.

I.o.C. = [-5, 5] R.o.C. = 5

2. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} \frac{(x+2)^n}{n \, 4^n}$.

I.o.C. = [-6, 2) R.o.C. = 4

3. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} \frac{2^n (x-2)^n}{(n+2)!}$.

I.o.C. = $(-\infty, +\infty)$ R.o.C. = ∞

4. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} \frac{2^n (x-3)^n}{\sqrt{n+3}}$.

I.o.C. = [2.5, 3.5) R.o.C. = 1/2

5. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} \frac{(-1)^n x^n}{(2n+1)!}$.

I.o.C. = $(-\infty, +\infty)$ R.o.C. = ∞

6. Determine the interval and radius of convergence of the series $\sum_{n=1}^{\infty} (-1)^n \frac{x^n}{n}$.

I.o.C. = (-1, 1] R.o.C. = 1