For the week of November 03-07

1) Determine the interval of convergence of the following power series

(a) $\sum_{n=0}^{\infty} \frac{(-1)^n}{7n+2}(x+4)^n$

(b) $\sum_{n=0}^{\infty} \frac{1}{(2n)!}x^{n+3}$

(c) $\sum_{n=0}^{\infty} \frac{(n+1)^e}{e^{n+1}}(x-5)^n$

(d) $\sum_{n=0}^{\infty} \frac{(x-2)^n}{(n+1)3^n}$

(e) $\sum_{n=0}^{\infty} \frac{(2n)!x^n}{n^{2n}}$