Name: _____ I.D. # _____ Sr. # ____

For the series $\displaystyle\sum_{n=0}^{\infty} \frac{(-1)^n (x+1)^n}{n!}$,

a) Find the radius and interval of convergence, b) For what values of x does the series converge absolutely? c) For what values of x does the series converge conditionally?

Name: _____ I.D. # _____ Sr. # ____

For the series $\displaystyle\sum_{n=1}^{\infty}\frac{(-1)^{n+1}(x+4)^n}{n\,4^n}$,

a) Find the radius and interval of convergence, b) For what values of x does the series converge absolutely? c) For what values of x does the series converge conditionally?