1. Find the interval of convergence for the following power series. Test endpoints (if any).

$$\sum_{k=1}^{\infty} \frac{k^{10}(2x-4)^k}{10^k}$$

1. Find the interval of convergence for the following power series. Test endpoints (if any).

$$\sum_{k=1}^{\infty} \frac{k^{20} x^k}{(2k+1)!}$$