Worksheet #10

Find the radius and interval of convergence of the series.

(1)
$$\sum_{n=1}^{\infty} \frac{(2x-1)^n}{5^n \sqrt{n}}$$

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

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

(4)
$$\sum_{n=1}^{\infty} n! (2x-1)^n$$