- 1. Is $\sum_{n=1}^{\infty} (-1)^{n+1} \frac{\sqrt{n}}{2+3 n}$ absolutely convergent, conditionally convergent or divergent? Justify your claim.
- 2. Find the radius of convergence and the interval of convergence (use interval notation) for the power series $\sum_{n=1}^{\infty} \frac{(2 x 1)^n}{\sqrt{n} 5^n}$. Justify your claims. Don't forget the endpoints!

solution