<b>6</b> .	[10 points]	Consider	the	power	series
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$$\sum_{n=1}^{\infty} \frac{(-1)^n}{n \, 5^n} \, (x+3)^n.$$

a.	[2]	points	What	is	the	center	of	the	interval	of	convergence of th	s power	series
	1 –											p	

**Answer:** The center is at x =

For parts b and c below, show every step of any calculations and fully justify your answer with careful reasoning.

**b.** [3 points] Find the radius of convergence of this power series.

Answer: Radius of Convergence:

c. [5 points] Find the interval of convergence for this power series.

Answer: Interval of Convergence: