

HW #15 Final Answers

1. $I = (-\infty, \infty)$
 $R = \infty$

10. $\sum_{n=0}^{\infty} (-1)^n x^n$ with $I = (-1, 1)$

2. $I = [-4, 4]$
 $R = 4$

11. $5 \sum_{n=0}^{\infty} 4^n x^n$ with $I = (-\frac{1}{4}, \frac{1}{4})$

3. $I = \{6\}$
 $R = 0$

12. $\sum_{n=0}^{\infty} \frac{x^n}{3^{n+1}}$ with $I = (-3, 3)$

4. $I = [-\frac{1}{9}, 1]$
 $R = \frac{5}{9}$

5. $I = \{\frac{1}{2}\}$
 $R = 0$

6. $I = [-\frac{4}{3}, 1]$
 $R = \frac{7}{6}$

7. $I = (-\infty, \infty)$
 $R = \infty$

8. $I = [-\frac{2}{3}, 4]$
 $R = \frac{7}{3}$

9. $I = (-2, \frac{8}{5}]$
 $R = \frac{9}{5}$