

Homework #12 Final Answers

Section 11.2

4. $\frac{1}{4}$

15 a. Sequences **Converges** [show Limit = $\frac{2}{3}$]

b. Series **Diverges** [explain why?]

State Test and Show all Condition checks

22. **Converges** [explain why?] and Sum = $\frac{5}{\pi-1}$

23. **Converges** [explain why?] and Sum = $\frac{1}{7}$

24. **Diverges** [explain why?]

26. **Diverges** [explain why?]

29. **Diverges** [explain why?]

37. **Diverges** [explain why?]

39. **Diverges** [explain why?]

42. **Diverges** [explain why?]

51. $\frac{8}{9}$

57. $-\frac{1}{5} < x < \frac{1}{5}$ and Sum = $\frac{-5x}{1+5x}$

59. $-1 < x < 5$ and Sum = $\frac{3}{5-x}$

Plus Q: $\frac{5}{2}$ Explain all parts