

## Hints for 11.7:

1. Comp,  $\frac{1}{3^n}$
2. root
3. Test for div
4. Alt Series (Deriv)
5. Ratio
6. Comp w/  $\frac{1}{n}$
- ~~7.~~
8. Ratio
9. Ratio
- ~~10.~~
11. Sum of 2 conv series
12. Comp,  $\frac{1}{k^2}$
13. Ratio
14. Direct comp,  $\frac{1}{2^n}$
15. Root
16. Comp,  $\frac{1}{n}$
17. Ratio
18. Alt Series
19. Alt Series, deriv
20. Comp,  $\frac{1}{k^{2n}}$
21. Test for div
22. Test for div
23. Comp w/  $\frac{1}{n}$
24. Test for div
25. Ratio
26. Ratio
- ~~27.~~
28. Comp w/  $e/n^2$
- ~~29.~~
30. Alt Series, deriv
31. Test for div
32. Root
33. Note:  $(1 + \frac{1}{n})^n \rightarrow e$
34.  $\sum \frac{1}{n+n}$
35. Lim w/  $\frac{1}{n}$
36. Tricky
37. Root
38. Tricky