

EMCF26 – Math 1432, 13209

The answer sheet for this assignment can be found by logging into *CourseWare* at <http://www.casa.uh.edu>, selecting **Math 1432(13209)**, clicking on the **EMCF** tab at the top of the page, and selecting **EMCF26**.

1. $\{(-1)^n\}$
 - a. Converges
 - b. Diverges
2. $\left\{\frac{(-1)^n}{n+1}\right\}$
 - a. Converges
 - b. Diverges
3. $\left\{\frac{\ln(2n-1)}{n+3}\right\}$
 - a. Converges
 - b. Diverges
4. $\left\{\frac{2n-1}{3n+2}\right\}$
 - a. Converges
 - b. Diverges
5. $\left\{\frac{3n^2-2n+3}{5n+100}\right\}$
 - a. Converges
 - b. Diverges
6. $\left\{\frac{27n^{73}}{n!}\right\}$
 - a. Converges
 - b. Diverges
7. $\left\{\frac{n^n}{n!}\right\}$
 - a. Converges
 - b. Diverges
8. $\left\{\frac{n!}{n^n}\right\}$
 - a. Converges
 - b. Diverges

9. $\left\{ \frac{2^{-n}}{3^{-n}} \right\}$

- a. Converges
- b. Diverges

10. $\{n(-1)^n\}$

- a. Converges
- b. Diverges

11. $\left\{ \frac{\sin(3n)}{2n+2} \right\}$

- a. Converges
- b. Diverges

12. $\left\{ \frac{n+2}{\sin(5n)} \right\}$

- a. Converges
- b. Diverges

13. $\{n \sin(\pi n)\}$

- a. Converges
- b. Diverges

14. $\left\{ \frac{2^n}{10n^9 + 7n^3 + 12} \right\}$

- a. Converges
- b. Diverges

15. $\left\{ \frac{3^{2n}}{n!} \right\}$

- a. Converges
- b. Diverges