

Math 131A Homework 3

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14.2 Determine which of the following series converge. Justify your answers.

(c) $\sum \frac{3n}{n^3}$

(d) $\sum \frac{n^3}{3n}$

(e) $\sum \frac{n^2}{n!}$

(f) $\sum \frac{1}{n^n}$

14.3 (a) $\sum \frac{1}{\sqrt{n!}}$

(b) $\sum \frac{2+\cos n}{3^n}$

(c) $\sum \frac{1}{2^n+n}$

(d) $\sum (\frac{1}{2})^n (50 + \frac{2}{n})$