

1. Determine whether each of the following sequences converge, and if they do, what the limit is.

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

b.  $\left\{ \frac{n!}{n^n} \right\}$

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