Problem Set 23 11.6: The Ratio and Root Tests

Please indicate the members who are present. Also indicate the group coordinator.

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Group Number:	
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Members:	
Michibers.	

Test for convergence
$$\sum_{n=1}^{\infty} \frac{10^n}{(n+1)4^{2n+1}}.$$

Test for convergence $\sum_{n=1}^{\infty} \frac{n!}{n^n}$.

Test for convergence $\sum_{n=1}^{\infty} \left(1 + \frac{1}{n}\right)^{n^2}$.

Test for convergence $\sum_{n=1}^{\infty} (\arctan n)^n$.

Test for convergence
$$\sum_{n=1}^{\infty} \frac{\sin(n\pi/6)}{1 + n\sqrt{n}}.$$

Test for convergence $\sum_{n=2}^{\infty} \frac{(-1)^n}{\sqrt{n} \ln n}.$