MATH	152	
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QUIZ 7A

NAME

Mrs. Bonny Tighe

25 points 12.5, 12.6

Section Wed. 4/12/06

1. Test the series for convergence or divergence. State the test you use and show are your work. If the series is an Alternating Series, find if it is Absolutely or Conditionally convergent.

a)
$$\sum_{n=1}^{\infty} \frac{3^n n}{n!}$$

b)
$$\sum_{n=1}^{\infty} \frac{(-1)^{n-1} \ln n}{n^3}$$

c)
$$\sum_{n=1}^{\infty} \frac{2^n}{n!}$$

d)
$$\sum_{n=1}^{\infty} \frac{(-1)^n (n+1)}{n^3 + 2n}$$

$$e) \sum_{n=1}^{\infty} \frac{n!}{e^n n}$$

$$f) \sum_{n=1}^{\infty} \left(\frac{3n}{1+8n} \right)^n$$

g)
$$\sum_{n=1}^{\infty} \frac{(-2)^n}{5^{n-1}}$$

h)
$$\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{(n+1)!}$$