Name: _____ Math 232 Quiz 7

1. (5 pts each) Determine whether the series is convergent or divergent. If it is convergent, find its sum. If it is divergent, explain why.

(a) $\displaystyle\sum_{n=0}^{\infty} \frac{2^n}{3^{n+1}}$

(b) $\displaystyle\sum_{n=1}^{\infty} \frac{(-1)^n}{\sqrt[n]{n}}$

(c) $\displaystyle\sum_{n=0}^{\infty} \frac{1+(-1)^n}{2^n}$

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