1. determine the taylor polynomial.
$T_2(x)$ at 3

$$F(x) = \frac{x}{x+2}$$

2. show that $T_2(x) \sim F(x)$.
with an error > 0.1 on the interval
$[2, 4]$

5. a determine the interval of the
convergence of the power series.
$$\sum_{n=1}^{\infty} \frac{(-1)^n}{n+3^n} (x-3)^n$$

b. using your answer to pt. A.
determine the interval of the.
convergence of the Power
series.
$$\sum_{n=1}^{\infty} \frac{(-1)^n}{3^n} [\quad](x-3)^{n-1}.$$