MA	ΓH 152	
Mrc	Ronny	Tigh

QUIZ 10 25 points

NAME

12.11 Section Wed. 5/3/06

1. Expand each of the following as a power series using the binomial series. State the radius and interval of convergence. a) $(4-x)^{\frac{1}{2}}$

b)
$$\frac{1}{(1+x)^3}$$

2. Use the binomial series to expand $\sqrt[3]{1+x}$ as a power series and use this to estimate $\sqrt[3]{1.02}$.

3. Use the binomial series to expand a Maclaurin series for $\sin^{-1} x$