MA	ГН 152
Mrs	Bonny Tigh

QUIZ 10A 25 points

NAME\_\_\_\_

Ars. Bonny Tighe 25

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) 
$$\frac{x}{\sqrt{1+x}}$$

b)  $\frac{1}{(4-x)}$ 

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

3. Use the binomial series to expand  $\sqrt[4]{1-x}$  as a power series and use this to estimate  $\sqrt[4]{98}$ .  $\sqrt[4]{98}$