## PRINT your name:

Answer each question below completely. You must fully justify your answers to get credit. Even a correct answer with no justification is wrong.

1. Write a (geometric) power series which agrees with the function  $\frac{1}{8+x^3}$  on the interval -2 < x < 2.

2. Write a power series representation of  $\frac{3x^2}{(8+x^3)^2}$  *Hint: the answer to the first question is relevant.*