

- Total points: 10+10 quiz points.
- Show *complete work*—that is, all the steps needed to completely justify your answer.
- *Simplify* your answers as much as possible.
- If you need extra space, work on the back and make a note on the front.

(1) Write in Σ notation the power series

(centered at 0) for $\frac{6x}{1+x^3}$.

Find the interval of convergence.

(2) Write in Σ notation the power series

(centered at 1) for $\frac{1}{10+x}$.

Find the interval of convergence.
