

- 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  $\Sigma$  notation the power series

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

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Find the interval of convergence.

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(2) Write in  $\Sigma$  notation the power series

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

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Find the interval of convergence.

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