Math 1B: Quiz 11   Name: _____

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You must always justify your answers. This means: show your work, show it neatly, and when in doubt, use words (and pictures!) to explain your reasoning. No justification = no points.

1. (10 pts) Find a power series representation (centered at 0) of the function $f(x) = \ln(1 + \frac{x}{2})$. Your final answer must be in the form $\sum c_n x^n$. Find the interval of convergence of your series.