

# 18.100A Assignment 11

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## Problem 1

*Proof.* Let  $f(x) = \frac{1}{1121}x^{1121} + \frac{1}{2021}x^{2021} + x + 1$ . We compute the derivative:

$$f'(x) = x^{1120} + x^{2020} + 1 \tag{1}$$

□