

HOMEWORK ASSIGNMENTS**Assignment 11**

Read section 6.2 and pages 266-7

Problems, due Friday, 4/23:

1. p. 182 # 10
2. p. 183 # 20
3. (i) Find the Taylor polynomial of degree n , $P_n(x)$, of $\log x$ in powers of $x - 1$.
(ii) Find a positive integer N such that $|\log x - P_n(x)| < .002$ for all $x \in [1, 1.5]$. Your choice for N should be as small as possible, and you must prove that your choice works.