Names (please print):

Math 1152Q: Fall '18
Sec 11.4 in-class "Homework" , Monday, Feb 5

1. Determine whether each series converges or diverges.

$a.)$ $\displaystyle\sum_{n=1}^{\infty} \frac{\ln\ n}{n}$ $\qquad$ $b.)$ $\displaystyle\sum_{n=4}^{\infty} \frac{1}{2^n - 9}$

Try Divergence Test:

Try Limit Comparison Test (LCT):
Try $\boxed{b_n = \underline{\qquad\qquad}}$.

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2. Determine whether each series is convergent or divergent.

$$i.) \quad \sum_{n=1}^{\infty} \frac{2n^2+3n}{\sqrt{5+n^5}} \qquad ii.) \quad \sum_{n=1}^{\infty} \frac{5}{2n^2+4n+3}.$$

Try Divergence Test:

Try Limit Comparison Test (LCT):
Try $\boxed{b_n = \_\_\_\_\_}$.