KFUPM MATH102 Quiz#6 Sec. 35

Name Sr.#

43–48 Determine whether the series is convergent or divergent by expressing s_n as a telescoping sum (as in Example 8). If it is convergent, find its sum.

44. $\displaystyle\sum_{n=1}^{\infty} \ln \frac{n}{n+1}$

3–32 Determine whether the series converges or diverges.

24. $\displaystyle\sum_{n=1}^{\infty} \frac{n + 3^n}{n + 2^n}$