MA166: Exam 3 Solutions

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1 Exam III (Spring 2016)

Here are the solutions to Exam III.

Problem 1 (# 1, #). Test the following series for convergence:

(I) $\displaystyle\sum_{n=1}^{\infty} e^{-n}$;

(II) $\displaystyle\sum_{n=1}^{\infty} \frac{2^n}{n}$;

(III) $\displaystyle\sum_{n=1}^{\infty} \frac{3}{n^2}$.

Solution. ∎

Problem 2 (# 2, #).

Solution. ∎

Problem 3 (# 3, #).

Solution. ∎

Problem 4 (# 4, #).

Solution. ∎

Problem 5 (# 5, #).

Solution. ∎

Problem 6 (# 6, #).

Solution. ∎

Problem 7 (# 7, #).

Solution. ∎

Problem 8 (# 8, #).

Solution. ∎

Problem 9 (# 9, #).

Solution. ∎

Problem 10 (# 10, #).

Solution. ∎

Problem 11 (# 11, #).

Solution.   ∎

Problem 12 (# 12, #).

Solution.   ∎