childsmath

$$\int_M d\omega = \int_{\partial M} \omega$$

Math 3A03
Poll Results

Example: sup of sum

Question #1 Suppose $E \subseteq \mathbb{R}$ and f and g are defined and bounded on E. Which of the following statements follows?

(A) $\sup_{x\in E}\{f(x)+g(x)\} \leq \sup_{x\in E}\{f(x)\} + \sup_{x\in E}\{g(x)\}$

(B) $\sup_{x\in E}\{f(x)+g(x)\} = \sup_{x\in E}\{f(x)\} + \sup_{x\in E}\{g(x)\}$

(C) $\sup_{x\in E}\{f(x)+g(x)\} \geq \sup_{x\in E}\{f(x)\} + \sup_{x\in E}\{g(x)\}$

(D) none of the above