childsmath

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

Math 3A03
Poll Results

Metric spaces: completeness

Question #1 For any interval $I \subset \mathbb{R}$, $C_{\mathrm{b}}(I)$ is the space of bounded continuous functions on I, whereas $P(I)$ is the space of polynomials with domain I. Which of the following metric spaces is complete?

(A) $C_{\mathrm{b}}(I)$ with the sup norm;
(B) $C_{\mathrm{b}}(I)$ with any p-norm;
(C) $P((0,1))$ with the sup norm;
(D) $P((0,1))$ with any p-norm;
(E) $P([0,1])$ with the sup norm;
(F) $P([0,1])$ with any p-norm;
(G) none of the above is complete.