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

Math 3A03
Poll Results

Metric spaces: Is "equal" vs "not equal" a metric?

Question #1 Suppose $d(x, y) = 0$ if $x = y$ and $d(x, y) = 1$ if $x \neq y$. Which of the following properties does the functcion $d(x, y)$ satisfy?

(A) $d(x, y) \geq 0$
(B) $d(x, y) = 0 \iff x = y$
(C) $d(x, y) = d(y, x)$
(D) $d(x, y) \leq d(x, z) + d(z, y)$