Complex Conjugation

**Quiz:** Complex Conjugation.
If $\bar{z} = -z$, what does that tell us about the value of $z = a + bi$?

**Choices:**

a) $z$ is purely imaginary.
b) $z$ is real.
c) $z$ has length 1.
d) $z = 0$.
e) None of the above.

**Answer:**
Answer: (a)

\[ a + bi = -(a - bi) \text{ implies } a = -a = 0. \]