**Multiplication by $i$**

**Quiz:** Multiplication by $i$.
Multiplication by $i$ has what effect on a complex number in the complex plane?

**Choices:**

a) It rotates the number around the origin by 90 degrees counterclockwise.

b) It rotates the number around the origin by 90 degrees clockwise.

c) It takes a number to the number pointing in the opposite direction with the same distance from the origin.

d) It reflects the number across the imaginary axis.

e) It reflects the number across the real axis.

f) None of the above.

g) I don’t know.

Pick what you think is the correct choice and then look at the answer.