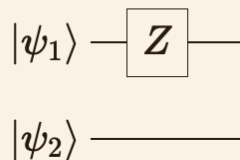


# Sample question from ACEPhysics activity:

A. Consider the following circuit.



Which represents the output state? Select all correct expressions.

<input type="checkbox"/>	$Z( \psi_1\rangle \otimes  \psi_2\rangle)$
<input type="checkbox"/>	$(Z  \psi_1\rangle) \otimes  \psi_2\rangle$
<input checked="" type="checkbox"/>	$(Z \otimes I)( \psi_1\rangle \otimes  \psi_2\rangle)$
<input type="checkbox"/>	$(I \otimes Z)( \psi_1\rangle \otimes  \psi_2\rangle)$

There are two correct answers!

$(Z \otimes I)(|\psi_1\rangle \otimes |\psi_2\rangle)$  is **correct**.

Move on ↓