

# Validity of Arguments (Symbolic Arguments)

Rewrite each argument in symbolic form, then determine if it is valid or invalid. Support your answer by stating the type of valid or invalid argument it is.

1)

If Lucy is singing, then Joe is playing the piano.

Lucy is not singing.

∴ Joe is not playing the piano.

2)

If the cat is in the room, then the mice are hiding.

The mice are not hiding.

∴ The cat is not in the room.

3)

The garden has vegetables or the garden has flowers.

The garden does not have vegetables.

∴ The garden has flowers.

4)

If the car is red, then the car is fast.

The car is fast.

∴ The car is red.