Exercise 6.13

$E(\phi_1 \cup \phi_2)$ says that it is possible to reach a state (possibly without moving at all) such that the state satisfies ϕ_2 and all earlier states on the path (that is, excluding the last state) satisfy ϕ_1

$E(\phi_1 \cup \phi_2)$	it is possible to go to ϕ_2 while obeying ϕ_1

$A(\phi_1 \cup \phi_2)$ says that [1] it is impossible not to eventually reach a state (including without moving at all) satisfying ϕ_2, and [2] that until reaching a state satisfying ϕ_2 all earlier states on the path (that is, excluding the last state) satisfy ϕ_1

$A(\phi_1 \cup \phi_2)$	[1] it is not possible to escape ϕ_2 forever, and [2] it is not possible to disobey ϕ_1 before reaching ϕ_2