Question:

Translate the given statement into propositional logic using the propositions provided.
"You cannot edit a protected Wikipedia entry unless you are an administrator."
Express your answer in terms of *e*: "You can edit a protected Wikipedia entry" and *a*: "You are an administrator."

Answer:

Let, p is "You cannot edit a protected Wikipedia entry" and q is "you are not an administrator".

So, the given proposition is in the form "p unless ~q". It can be rewritten as "q -> p". Here, p is ~e and q is ~a.

Then the proposition becomes "~a -> ~e" which can also be expressed as its contrapositive equivalent "e -> a" as these two have the same truth value.

So, the required propositional logic is "e -> a".