In-Class Worksheet

Discrete Math & Functional Programming— CSCI 054— Spring 2025 Instructor: Osborn

For each expression below, write an equivalent one that is simpler.

```
a && not a
a || (not a && b)

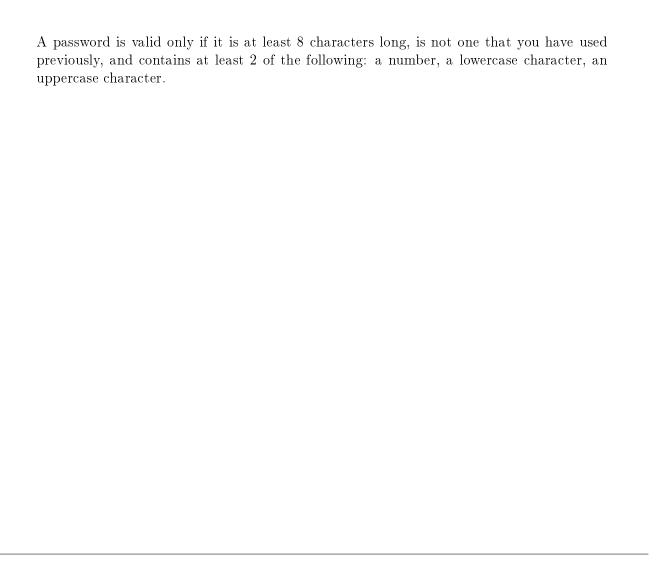
(not a || b) && (not b || c) &&
      (not c || not a) && (not c || not b)
```

1 + 1 = 2 implies that 2 + 3 = 5

1 + 1 = 2 implies that 2 + 3 = 6

1 + 1 = 3 implies that 2 + 3 = 5

1 + 1 = 3 implies that 2 + 3 = 6



$$p \vee q \Rightarrow \neg p \wedge \neg q$$