

MCS-236 Non-textbook Homework Exercise 3

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Although symbolic expressions are helpful when engaging in logic, the same principles can be applied even using ordinary English, if you are careful. Each of the following statements is false:

1. “Either Max is perfect or he will give up.”
2. “Every topic we cover in MCS-236 is useless.”

Because each of these statements is false, the negation of each of them is true. One way the negations could be formed is by prefixing each statement with “It is not the case that”. However, the resulting sentences are clumsy. Use DeMorgan’s laws to write each of the two negated sentences in an alternative form that doesn’t start with anything like “It is not the case that”.