Introduction to Mathematical Thinking
Problem Set 1 Solutions

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1. No, it's not possible because for the entire conjunction to be true, every conjunct must be true regardless of order of evaluation.

2. Same as the case for conjunction, the order of evaluation for disjuncts will not change the result for the disjunction.

3. No, its not possible.

4. No, it's not possible.

5. Yes.

6. Alice is honest and works in a bank.

7. Alice is a rock star or she works in a bank.

8. (a) False
    (b) True
    (c) True
    (d) True
    (e) True
    (f) True
    (g) False
    (h) True
    (i) True
    (j) True