

## Intro to Discrete Math Graded Problems

**Important:** Remember to read the instructions and advice in [homework.html](#)!

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**§ 2.1** (10 points) Use Theorem 2.1.1 to fully simplify the logical expression below. Write a clear chain of equivalences, and justify each step by citing the law(s) used by name.

$$\sim [\sim [(p \vee q) \wedge r] \vee \sim q]$$

(Hint: The distribute law *can* be applied here, but it does not help! On the contrary, it will just make things harder for both of us. Look for another approach.)