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ECE 20869

Homework 0

August 31

Problem 1 - Write down some statements

1.1 Write down a true statement

$$(1 + 1 = 2 \wedge 2 + 2 = 4) \rightarrow (1 + 1) + (1 + 1) = 4$$

1.2 Write down a false statement

$$\left(\frac{1}{2} = 0.5 \wedge \frac{1}{20} = 0.5\right) \rightarrow (2 = 20)$$

Problem 2 - Please write down a complicated math formula that includes fraction, conjunction, disjunction, and negation

$$((\neg P) \wedge P \rightarrow A) \vee \left(\frac{A}{P}\right)$$

Problem 3 - What is your favorite fruit?

- A. **Apple** ✓
- B. Banana
- C. Cranberry
- D. Durian