

Name: _____

Date: _____

Math 2710 — Worksheet

2026-09-17

Show your work. Write your final answer clearly.

1. Let $A = \{11, 13, 50\}$. How many elements are in $\mathcal{P}(A)$? How many elements are in $\mathcal{P}(\mathcal{P}(A))$?

2. Let $X = \{U \subset \mathcal{P}(\mathbb{N}) : |U| = 2\}$. Given an example of a an element of X .

3. Write a complete truth table for the logical statement $\neg P \vee Q$. Recall that $\vee$ means OR.