

Quiz 1: September 30, 2021

Name: _____

Student ID: _____

1. (4 points) Suppose that $|A| = m$ and $|B| = n$, give the following cardinalities:

(a) $|\mathcal{P}(\mathcal{P}(\mathcal{P}(A)))|$

(b) $|\mathcal{P}(A \times B)|$

2. (6 points) If $A = \{1, 2\}$, $B = \{z\}$, give the power sets of A , B , and $A \times B$