**Lattices and complete lattices**

**LATEST SUBMISSION GRADE**

100%

**1.Question 1**

**Which of the following partially ordered sets are lattices?**

(℘(*M*), ⊆), where *M* is a finite set and ℘(*M*) is the set of all subsets of *M*.

**Correct**

(℘*(M*), ⊆), where *M* is infinite and ℘(*M*) is the set of all subsets of *M*.

**Correct**

(*N*, ≤), where *N* is the set of all natural numbers {0, 1, 2, ... }.

**Correct**

(*N* ∪ {+∞}, ≤), where +∞ is assumed to be greater than any natural number from *N*.

**Correct**

**1 / 1 point**

**2.Question 2**

**Which of the following partially ordered sets are complete lattices?**

(℘(*M*), ⊆), where *M* is a finite set and ℘(*M*) is the set of all subsets of *M*.

**Correct**

(℘(*M*), ⊆), where *M* is infinite and ℘(*M*) is the set of all subsets of *M*.

**Correct**

(*N*, ≤), where *N* is the set of all natural numbers {0, 1, 2, ... }.

(*N* ∪ {+∞}, ≤), where +∞ is assumed to be greater than any natural number from *N*.

**Correct**