1. Given *ε* = { *x* : *x* is an integer and 1 ≤ *x* ≤ 10 }

*P* = { *x* : *x* <8}

*Q* = { *x* : *x* ≥3}

P = { 1, 2, 3, 4, 5, 6, 7 }

Q = { *3, 4, 5, 6, 7, 8, 9, 10* }

P ∪ Q = { 1, 2, 3, 4, 5, 6, 7, 8, 9 ,10 }

* 1. List all the elements contained in the set *P* ∩ *Q*.

*P* ∩ *Q* = {*3, 4, 5, 6,7*}

* 1. Find *n*(*P* ∪ *Q*).

n(P ∪ Q) = 10

* 1. List all the elements in *Q*′.

*Q*′ = 1, 2