

# Worksheet 2 Review

March 20, 2020

## Question 1

- a. A solution is  $x = Aizah$  and  $y = Aizah$ .

There is more than one possible answer, and another solution is  $x = Carlos$  and  $y = Carlos$

- b. One counter-example is  $x = Aizah$  and  $y = Betty$ .

Another counter-example is  $x = Flo$  and  $y = Ellen$ .

- c. The statement is true. For any employees, if the employee is in

1. Sales Department, Aizah can be chosen.
2. HR Department, Carlos can be chosen.
3. Design Department, Ellen can be chosen.

- d. Not true. There is an employee in all department.

A counter example to this statement is  $x = Carlos$  and  $y = Ellen$ .

## Question 2

- a.  $\exists f : \mathbb{R} \rightarrow \mathbb{R}, f(x) = 10$ .

## Question 3