## Worksheet 2 Solution

## March 10, 2020

## Question 1

a) x = Aizah, y = Aizah is one solution.

Yes. There is more than one answer. Take example x = Carlos, y = Carlos

b) x = Aizah, y = Betty is one solution.

Yes. There is more than one answer. Take example  $x = Ellen, y = Flo \label{eq:xy}$ 

c) The statement is true

y	$rich(x) \wedge sameDept(x, y)$
Aizah	True
Aizah	True
Carlos	True
Aizah	True
Ellen	True
Ellen	True
	Aizah Aizah Carlos Aizah Ellen

d) False. Consider example x = Ellen, y = Carlos

## Question 2

- a)  $\forall x \in \mathbb{R}, f(x) = 10$
- b)  $\forall y \in \mathbb{R}, \exists x \in \mathbb{R}, f(x) = y \text{ where } f : \mathbb{R} \to \mathbb{R}$