# Worksheet 11 Review

March 30, 2020

## Question 1

a. $\forall a, b \in \mathbb{R}^+,\ a \leq b \Rightarrow (\exists c, n_0 \in \mathbb{R}^+,\ \forall n \in \mathbb{N},\ n \geq n_0 \Rightarrow g(n) \leq cf(n))$

> **Correct Solution:**
>
> $\forall a, b \in \mathbb{R}^+,\ a \leq b \Rightarrow (\exists c, n_0 \in \mathbb{R}^+,\ \forall n \in \mathbb{N},\ n \geq n_0 \Rightarrow n^a \leq cn^b)$

b.

## Question 2

## Question 3