# Exercise 3

#### First function:

g(n) := 

Proof:

#### Second function:

g(n) := 

Proof:

#### Third function:

g(n) := 

Proof:

#### Fourth function: 1

g(n) := 

Proof:

#### Fifth function:

g(n) := 

Proof:

Because:

whereas we want = 1, so we try to divide g(n) by 2:

#### Sixth function:

g(n) := 

Proof: