Lab 1 – Solutions

# Math Problem 1

**Answer:** Increasing for and decreasing for 0 to +

**Answer:** Eventually nondecreasing

**Answer:** increasing

# Math Problem 2

**Answer:** both

**Answer:** f grows no faster than g

**Answer**: f grows no faster than g

# Problem 4

**Answer**: Yes

We have,

**Set:**

**Subset sum:** T

**Sum:** k

Assume,