## **Class Discussion**

## Unit 1 Topic 4 Part 1 rigid transformation

## Objective:

## Introduction of transformations

horizontal translation	h(x) = f(x - h)
vertical translation	h(x) = f(x) + k
Reflection about x-axis	h(x) = -f(x)
Reflection about y-axis	h(x) = f(-x)

Ex1: Given  $f(x) = (x+2)^2$ , graph h(x) if

(a) 
$$h(x) = f(x-3)$$

(b) 
$$h(x) = f(x) - 2$$

(c) 
$$h(x) = -f(x)$$

(d) 
$$h(x) = f(-x)$$

Ex2: Given the graph of f(x) (see the graph) and h(x) = -f(x-3) + 1, graph h(x)

