Al Moattasem International School

Jubail

Level 9 – Revision Work Sheet - 5

Chapter 8

Topic - Composite Functions & Inverse Functions

1) For the given:-

Find the inverse of the function $h : x \mapsto \dfrac{4x - 3}{2}$.

2) For the following questions:-

Find the inverse of each of the following functions

(a) $f(x) = 3x + 4$

(b) $f : x \mapsto 4(x - 1)$

(c) $f(x) = 3(2x + 5)$

(d) $g : x \mapsto -8x + 3$

(e) $g(x) = \dfrac{1}{2}(3x + 4) + 6$

(f) $g : x \mapsto \dfrac{2x + 1}{3}$

3) Given the following

For each of the following functions, f, g, write down the

function fg.

(a) $f : (x) = 2x + 1$, $g(x) = x - 3$ (b) $f : x \mapsto 2x - 1$, $g : x \mapsto x^2$

(c) $f(x) = x^2$, $g(x) = 2x - 1$