Composite Function_ Exam Style Questions	
1. [Maximum Marks: 5]	NO_GDC
Consider the functions $f(x) = 2x - 4$ and $g(x) = x^2 + p^2$, where p is a real constant.	
a) Write down an expression for $(gof)(x)$	[2]

b) Given that (gof)(3) = 40, find the possible values of p.

Date:

[3]

Functions f and g are defined by

$$f(x) = \sqrt{x+2} \text{ and } g(x) = \frac{3x-4}{x-2} \quad (x \neq 2)$$

- a) Find the range of g(x) [2]
- b) Solve the equations g(x) = 1 [2]
- c) Find the domain and range of $(f \circ g)(x)$ [2]