

Name:

QUIZ – MATH GRADE 11 SL

1. (100%) Given that: $f(x) = 2x^2 + 4x$, $g(x) = \ln(x - 3) + 2$, $s(x) = \frac{2x+1}{3-4x}$, find:

a. (8%) $f(g(x)) =$

b. (8%) $s(g(x)) =$

c. (8%) $f(f(x)) =$

d. (8%) $s(g(f(x))) =$

e. (12%) $g^{-1}(x) =$

f. (12%) $s^{-1}(x) =$

g. (12%) $f^{-1}(x) =$

h. (10%) $s^{-1}(s(x)) =$

i. (12%) Sketch $f(x)$ and $f^{-1}(x)$ on the same graph,

j. (10%) What is the graphical relation between the curves $f(x)$ and $f^{-1}(x)$?

