

1) Given the functions  $f(x) = 3x - 4$  and  $g(x) = x^2 - 7$ , find each of the following:

a)  $g(f(4))$

b)  $f(g(x))$

2) Use composition of functions to prove that the following two functions are inverses of each other:

$$f(x) = 2x + 7$$

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