

Answers

25	For $f(x) = 3 - 2x$ and $g(x) = x^2 + 2$ find $f(g(x))$ and $g(f(x))$.	$f(g(x)) = -1 - 2x^2$ $g(f(x)) = 11 - 12x + 4x^2$
26	A function is one-to-one if _____.	every x corresponds to one y ; every y corresponds to one x
27	A function has an inverse if it is _____.	it is one-to-one
28	Assume $f(x)$ is one-to-one, and $f(2) = 3$, then $f^{-1}(3) =$ _____ and $f(f^{-1}(3)) =$ _____.	$f^{-1}(3) = 2$; $f(f^{-1}(3)) = 3$
29	If $f(x) = 7 - 3x$, then $f^{-1}(x) =$ _____.	$f^{-1}(x) = \frac{x-7}{-3}$
30	If $f(x) = \frac{1}{x-5}$, then $f^{-1}(x) =$ _____.	$f^{-1}(x) = \frac{5x+1}{x}$